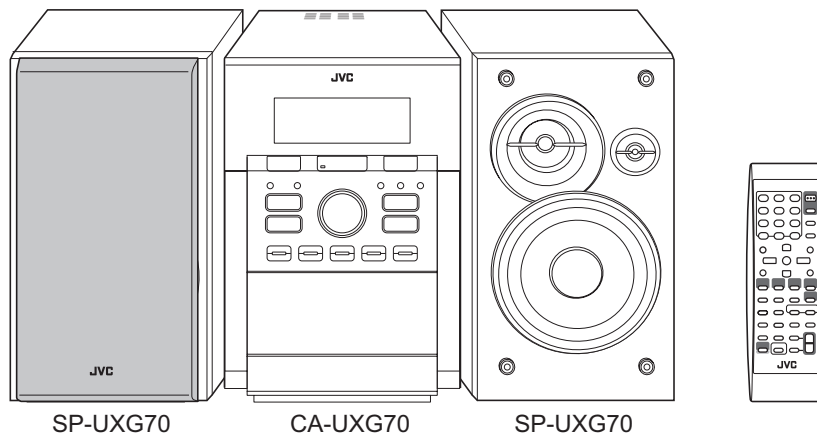


JVC

SERVICE MANUAL

MICRO COMPONENT SYSTEM

**UX-G70J,UX-G70C,UX-G70B,
UX-G70E,UX-G70EN,
UX-G70EV,UX-G70EE**



Radio Data System **MP3/WMA** **MPEG-4** **Digital Direct Progressive Scan**
PLAY BACK ASF PLAYBACK

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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SPECIFICATION

Amplifier section	Output Power	Northern america	120 W per channel, min. RMS, driven into 6 Ω at 1kHz with no more than 10% total harmonic distortion. (for northern america)
		Europe	160 W (80 W+80 W) at 6 Ω (10% THD) for europe
	Audio Input	LINE IN	500 mV/49 k Ω (at "L.IN LVL1") 250 mV/49 k Ω (at "L.IN LVL2") 125 mV/49 k Ω (at "L.IN LVL3")
		GAME IN (northern america)	500 mV/49 k Ω
		TV SOUND IN	500 mV/49 k Ω
	Audio Output	LINE OUT	1.0 Vrms (3 k Ω) (at "L.OUT LVL1") 500 mVrms (1.5 k Ω) (at "L.OUT LVL2")
		SUBWOOFER OUT	260 mVrms/3.9 k Ω
		HEADPHONES OUT	17 mW/32 Ω
	Digital output	DVD OPTICAL DIGITAL OUT	-21 dBm to -15 dBm (660 nm \pm 30 nm)
	USB input		USB AUDIO
	Video Output	Color system	NTSC (interlaced/progressive) for northern america PAL (interlaced/progressive) for europe
		VIDEO (composite)	1 V(p-p)/75 Ω
		S-VIDEO	Y (luminance) : 1 V(p-p)/75 Ω C (chrominance, burst) : 0.286 V(p-p)/75 Ω for northern america C (chrominance, burst) : 0.3 V(p-p)/75 Ω for europe
		RGB	0.7 V(p-p)/75 Ω for europe
		COMPONENT	(Y) : 1 V(p-p)/75 Ω (PB/PR) : 0.75 V(p-p)/75 Ω for northern america (PB/PR) : 0.7 V(p-p)/75 Ω for europe
		Speaker impedance	6 Ω - 16 Ω
		Headphone impedance	16 Ω - 1 k Ω
Tuner section	FM tuning range		87.5 MHz - 108.0 MHz
	AM tuning range		530 kHz - 1 710 kHz for northern america 522 kHz - 1 629 kHz fro europe
Disc player section	Playable disc		DVD Video/DVD Audio/CD/VCD/SVCD CD-R/CD-RW (CD/SVCD/VCD/MP3/WMA/JPEG format) DVD-R/-RW (DVD-VR/DVD Video/MP3/WMA/JPEG format) +R/+RW (DVD Video format) DVD-ROM (DVD Video format)
	Dynamic range		80 dB
	Horizontal resolution		500 lines
	Wow and flutter		Immeasurable
General	Power requirement		AC 120 V , 60 Hz for northern america AC 230 V , 50 Hz for europe
	Power consumption		90 W (at operation) for northern america 95 W (at operation) for europe 14 W (at standby) 1.0 W (at standby display OFF mode)
	Dimensions (approx.)(W/H/D)		175 mm \times 250 mm \times 411 mm (6-9/10 inch \times 9-7/8 inch \times 16-1/5 inch)
Speakers	Speaker units	Tweeter	1.5 cm (5/8 inch) dome \times 1
		Squawker	4 cm (1-5/8 inch) cone \times 1
		Woofer	13.5 cm (5-3/8 inch) cone \times 1
	Impedance		6 Ω
	Dimensions (approx.) (W/H/D)		166 mm \times 250 mm \times 232 mm (6-9/16 inch \times 9-7/8 inch \times 9-3/16 inch)
	Mass (approx.)		2.8 kg (6.2 lbs) each

Design and specifications are subject to change without notice.

SECTION 1

PRECAUTION

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

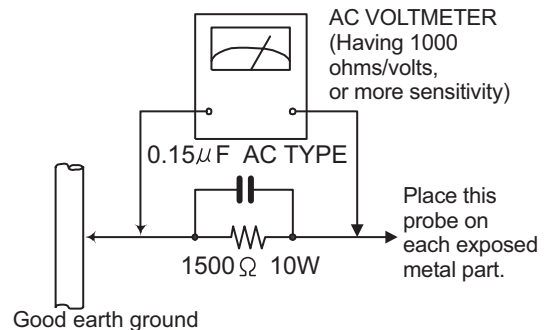
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

- (1) This equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution


Burrs formed during molding may be left over on some parts of the chassis.

Therefore, pay attention to such burrs in the case of pre-forming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (\blacksquare), diode (\blacksquare) and ICP (\bullet) or identified by the " Δ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Safety Precautions (U.K only)

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
- (2) Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
- (3) Essential safety critical components are identified by () on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

1.5.1 Warning

- (1) Service should be performed by qualified personnel only.
- (2) This equipment has been designed and manufactured to meet international safety standards.
- (3) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (4) Repairs must be made in accordance with the relevant safety standards.
- (5) It is essential that safety critical components are replaced by approved parts.
- (6) If mains voltage selector is provided, check setting for local voltage.



CAUTION Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.6 Preventing static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.6.1 Grounding to prevent damage by static electricity

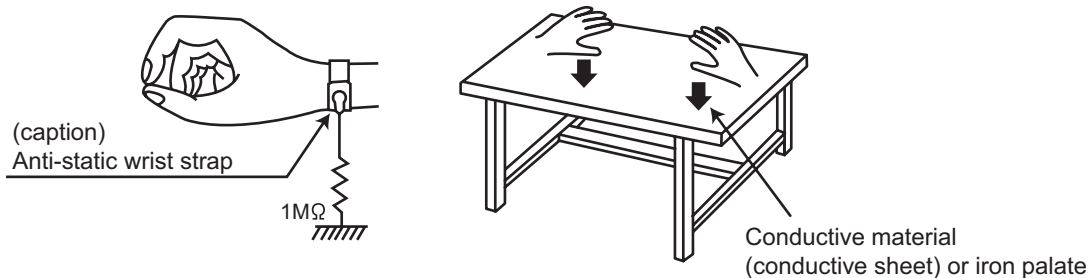
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup

- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

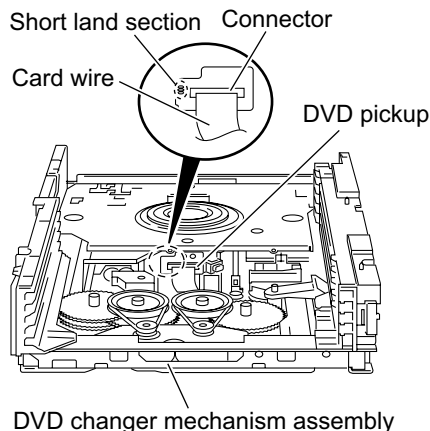
1.7 Handling the traverse unit (optical pickup)

- (1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
- (2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
- (3) Handle the flexible cable carefully as it may break when subjected to strong force.
- (4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

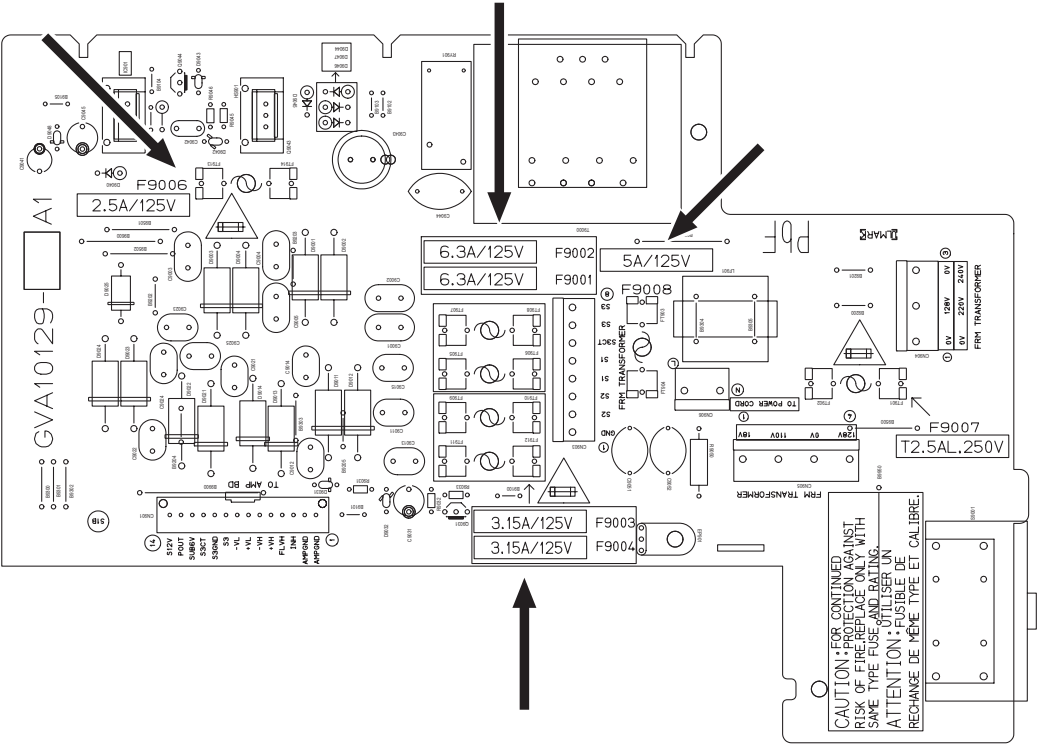
1.8 Attention when traverse unit is decomposed



***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the card wire is disconnected from the connector on the servo board. (If the card wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the card wire.



1.9 Importance administering point on the safety



<p>Full Fuse Replacement Marking</p> <p>Graphic symbol mark (This symbol means fast blow type fuse.)</p>  <p>should be read as follows ;</p>	<p>Marquage Pour Le Remplacement Complet De Fusible</p> <p>Le symbole graphique (Ce symbole signifie fusible de type à fusion rapide.)</p>  <p>doit être interprété comme suit ;</p>
<p>FUSE CAUTION</p> <p>FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ;</p> <p>F9001 : 6.3A 125V F9002 : 6.3A 125V F9003 : 3.15A 125V F9004 : 3.15A 125V F9006 : 2.5A 125V</p>	<p>PRECAUTIONS SUR LES FUSIBLES</p> <p>POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;</p> <p>F9001 : 6.3A 125V F9002 : 6.3A 125V F9003 : 3.15A 125V F9004 : 3.15A 125V F9006 : 2.5A 125V</p>

1.10 Important for laser products

1.CLASS 1 LASER PRODUCT

2.CAUTION :

(For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
(Others) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

3.CAUTION : Visible and/or invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

4.CAUTION : This laser product uses visible and/or invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

(For U.S.A.)

CAUTION : Visible and/or invisible class II laser radiation when open. Do not stare into beam.

(Others)

CAUTION : Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments

ACHTUNG: Sichtbare und/oder unsichtbare Laserstrahlung der Klasse 1M bei offenen Abdeckungen. Nicht direkt mit optischen Instrumenten betrachten.

ATTENTION: Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

VOORZICHTIG: Zichtbare en/of onzichtbare klasse 1M laserstralen indien geopend. Bekijk niet direct met optische instrumenten.

ATTENZIONE: Radiazione laser in classe 1M visibile e/o invisibile quando aperto. Non osservare direttamente con strumenti ottici.

VARNING: Synlig och/eller osynlig laserstrålning, klass 1M, när denna del är öppnad. Betrakta ej strålen med optiska instrument.

VARO! Avattaessa olet alttiina näkyvälle ja/tai näkymättömälle luokan 1M lasersäteilylle. Älä tarkastele sitä optisen laitteen läpi.

ADVARSEL: Synlig og/eller usynlig klasse 1M-laserstråling ved åbning. Se ikke direkte med optiske instrumenter.

AVISO: Radiación láser de clase 1M visible y/o invisible cuando está abierto. No mirar directamente con instrumental óptico.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.



CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

ПРЕДУПРЕЖДЕНИЕ: В открытом состоянии происходит видимое и/или невидимое излучение лазера класса 1M. Не смотрите непосредственно в оптические инструменты.

UWAGA: Otwarcie spowoduje narażenie na widzialne i/lub niewidzialne promieniowanie lasera klasy 1M. Nie patrzeć bezpośrednio w przyrządy optyczne.

UPOZORNĚNÍ: Při otevření vydává viditelné popř. neviditelné laserové ozáření třídy 1M. Nedívejte se do otvoru přímo s optickými nástroji.

FIGYELMEZTETÉS: Látható és/vagy láthatatlan 1M osztályú sugárzás nyitott állapotban. Ne nézze közvetlenül optikai műszerekkel.

注意：打開蓋板可能會產生可見或不可見的 1M 級鐳射。不要使用光學儀器直接進行窺視。

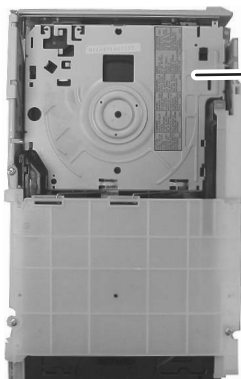
注意：打开盖板可能会产生可见或不可见的 1M 级辐射。不要使用光学仪器直接进行窥视。

تنبيه: يوجد إشعاع ليزري مرئي و/أو غير مرئي من الفئة 1M عندما يكون الجهاز مفتوحاً. تجنب النظر مباشرة داخل الجهاز باستخدام أدوات بصرية.

احتياط: هنگامی که باز گردد، تشعشع مرئی و یا نامرئی کلاس 1M لیزر وجود دارد. با لوازم چشمی مستقیماً به آن نگاه نکنید.

주의: 개방하면 가시 및/또는 비가시 클래스 1M 레이저 방사선이 나옵니다. 광학 기구로 직접 들여다보지 마십시오.

REPRODUCTION AND POSITION OF LABELS and PRINT WARNING LABEL and PRINT



CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを覗くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学装置で直接 見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS 1 LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44803-003A
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CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)

ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)

AVISO RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)

VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)
注意 ここを覗くと可視及び/または不可視のクラス1Mレーザー放射が出ます。光学装置で直接見ないでください。(JPN)

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1 LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. (ENG)
FDA 21 CFR LV44803-004A

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

3.1 Main body

3.1.1 Removing the side panel

(Fig.1, 2)

- (1) Remove the six screws **A** attaching the side panel. (See Fig.1)
- (2) Remove the four screws **B** attaching the side panel. (See Fig.2)

3.1.2 Removing the top cover

(Fig.1, 3)

- (1) Remove the one screw **C** attaching the top cover. (See Fig.1)
- (2) Remove the two screws **D** attaching the top cover. (See Fig.3)

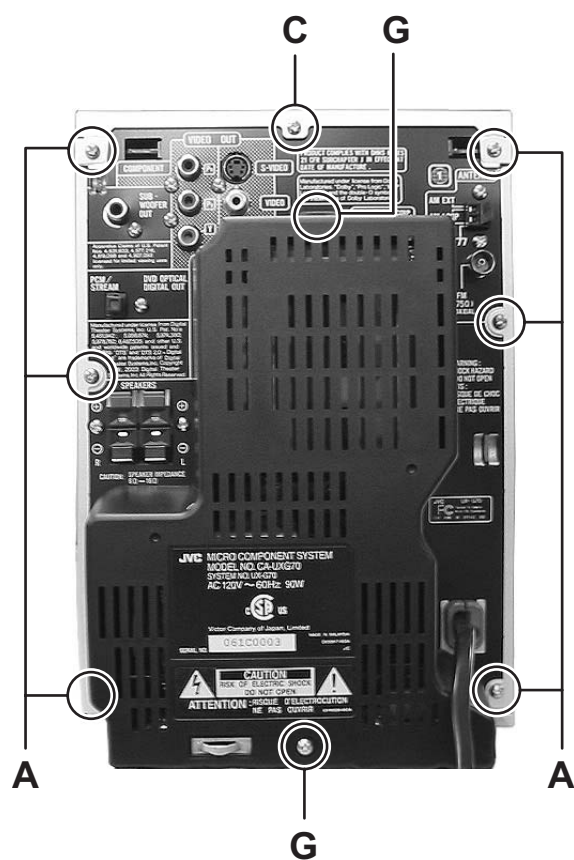


Fig.1



Fig.2

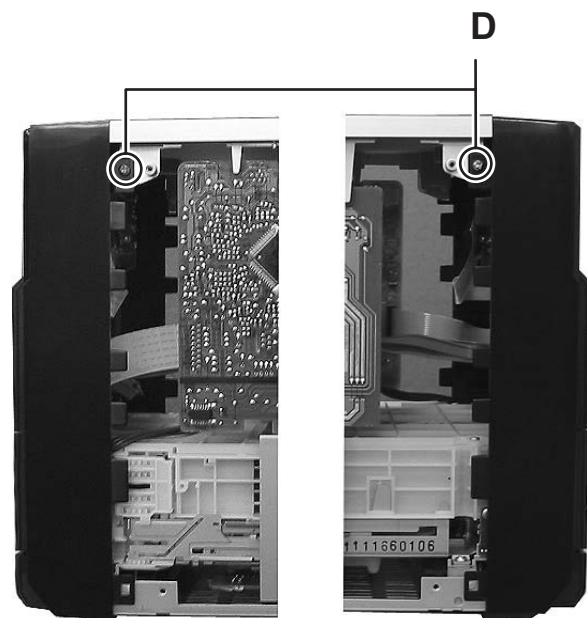


Fig.3

3.1.3 Removing the front panel (Fig.4 to 6)

- (1) Disconnect the card wire from the connector [CN359](#) and [CN360](#) on the regulator board. (See the Fig.4)
- (2) Disconnect the card wire from the connector [CN760](#) on the main board. (See Fig.4)
- (3) Disconnect the connector wire from the connector [CN713](#) on the main board. (See Fig.4)
- (4) Disconnect the connector wire from the connector [CN405](#) on the video board. (See Fig.4)
- (5) Remove the two screws **E** and two screws **F** attaching the front panel. (See Fig.5)
- (6) Remove the hook **a**. (See Fig.5)
- (7) Remove the hook **b** and then removing the front panel. (See Fig.6)

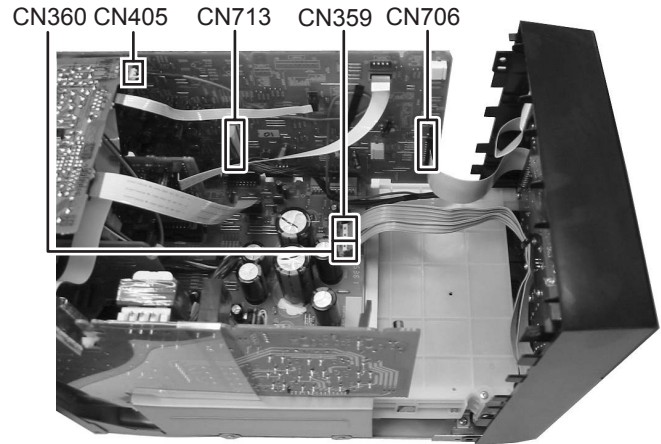


Fig.4

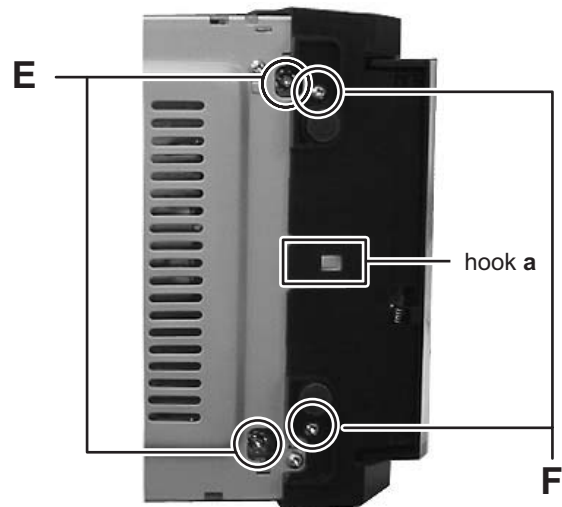


Fig.5

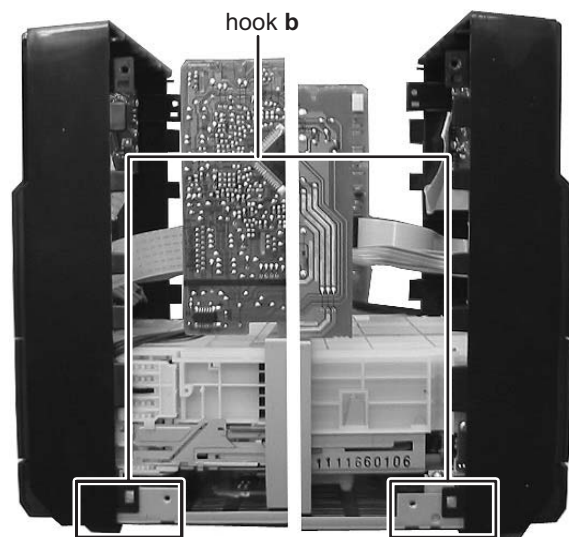


Fig.6

3.1.4 Removing the rear cover (Fig.1)

- (1) Remove the two screws **G** attaching the rear cover.

3.1.5 Removing the video board (Fig.7, 8)

- (1) Disconnect the card wire from the connector [CN401](#) and [CN402](#) on the video board. (See Fig.7)
- (2) Remove the three screws **H** attaching the video board. (See Fig.8)

3.1.6 Removing the tuner pack (Fig.8, 9)

- (1) Disconnect the card wire from the connector [CN712](#) on the main board. (See Fig.9)
- (2) Remove the two screws **J** attaching the tuner pack. (See Fig.8)

3.1.7 Removing the fan (Fig.8, 9)

- (1) Disconnect the connector wire from the connector [CN708](#) on the main board. (See Fig.9)
- (2) Remove the two screws **K** attaching the fan. (See Fig.8)

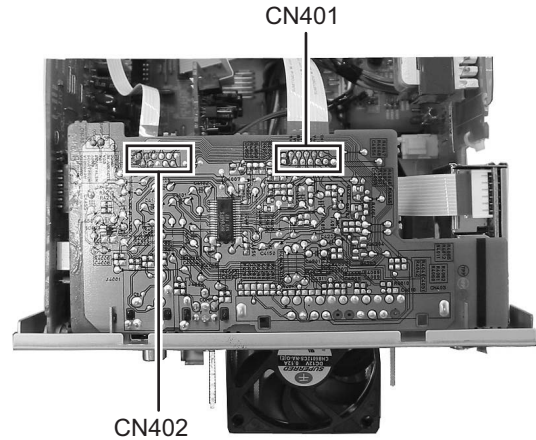


Fig.7

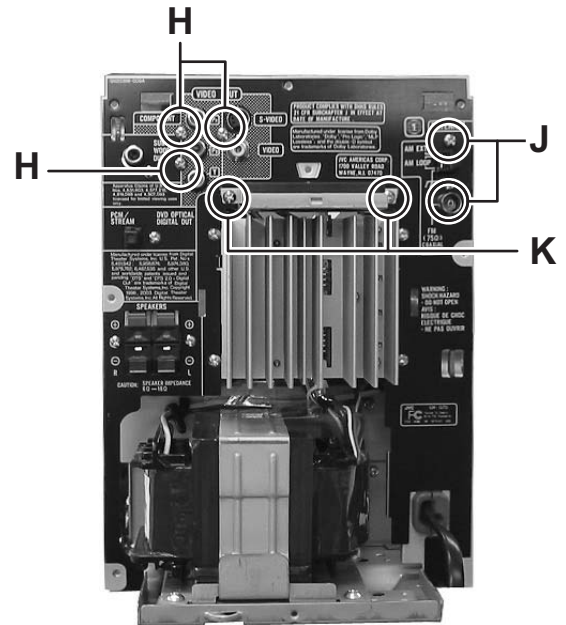


Fig.8

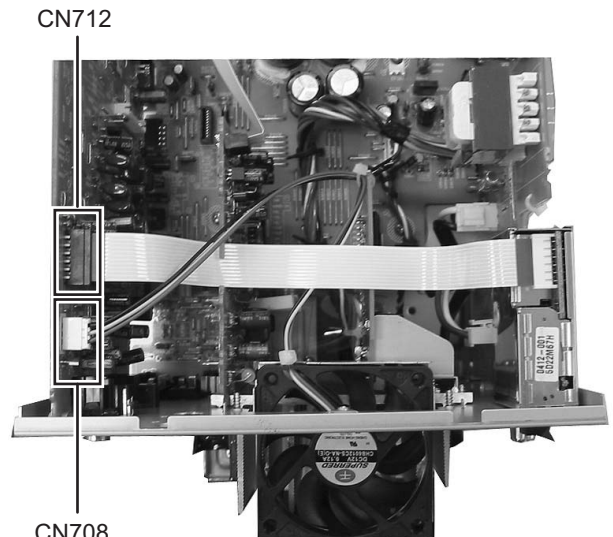


Fig.9

3.1.8 Removing the rear panel (Fig.10, 11)

- (1) Remove the eight screws L attaching the rear panel. (See Fig.10)
- (2) Remove the rear panel from the hook c. (See Fig.11)

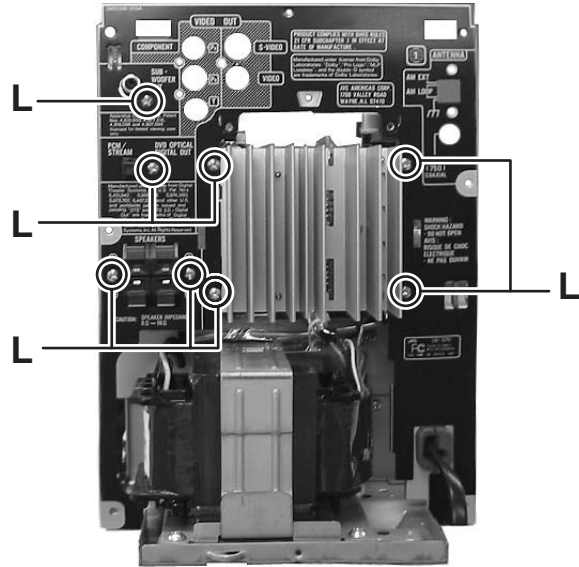


Fig.10

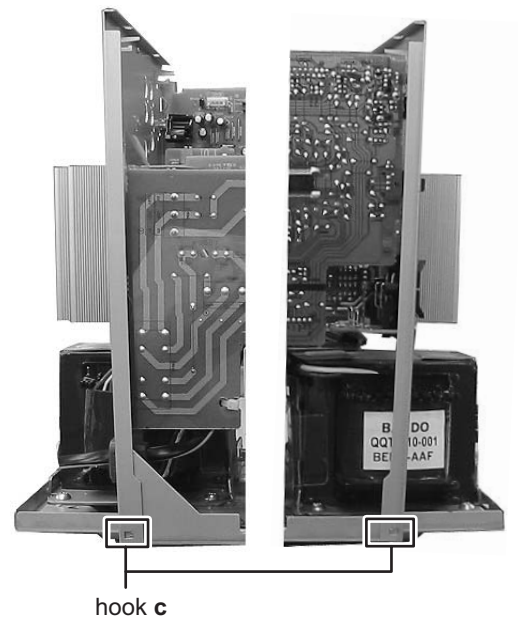


Fig.11

3.1.9 Removing the transformer board (Fig.12)

- (1) Disconnect the connector wire from the connector [CN903](#) on the transformer board.
- (2) Remove the one screw **M** attaching the transformer board.
- (3) Disconnect the connector [CN901](#) connecting the regulator board and then removing the transformer board with power cord.

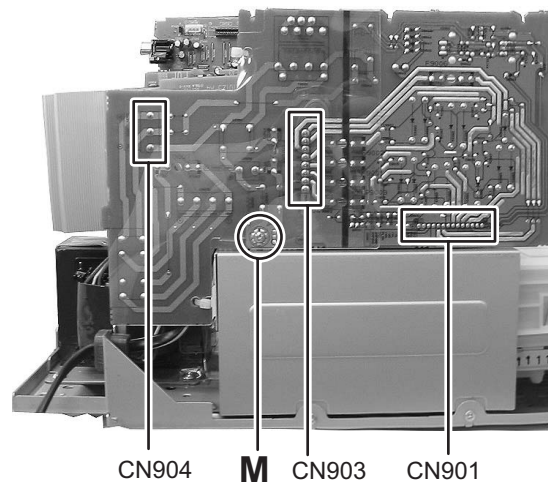


Fig.12

3.1.10 Removing the main board (Fig.13)

- (1) Disconnect the card wire from the connector [CN703](#) on the main board.
- (2) Remove the one screw **N** attaching the main board.
- (3) Disconnect the main board from the connector [CN701](#) and [CN702](#) connecting the regulator board.

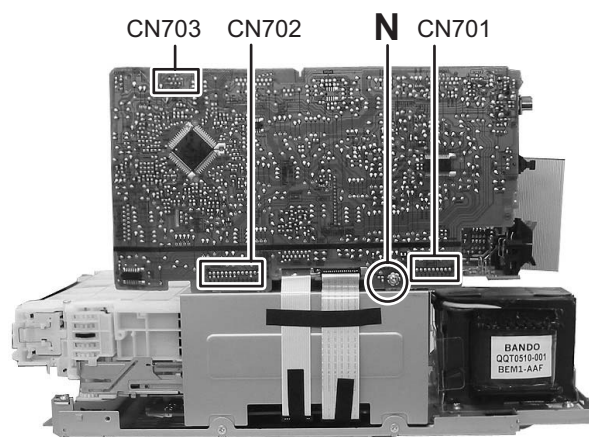


Fig.13

3.1.11 Removing the amplifier board (Fig.14)

- (1) Disconnect the amplifier board from the connector [CN353](#) and [CN354](#).

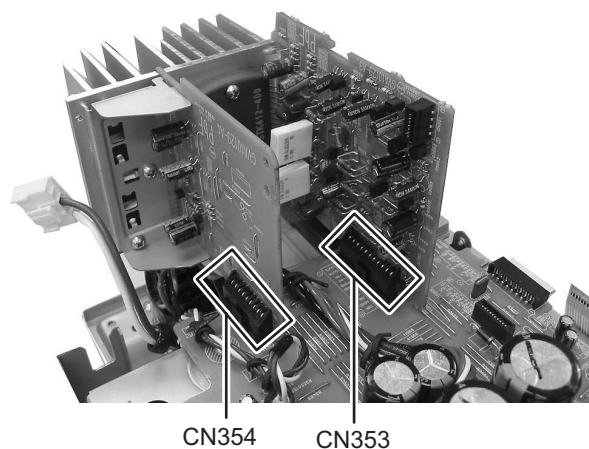


Fig.14

3.1.12 Removing the regulator board (Fig.15)

- (1) Disconnect the connector wire from the connector [CN361](#) on the regulator board.
- (2) Remove the four screws **P** attaching the regulator board.
- (3) Disconnect the card wire from the connector [CN356](#).

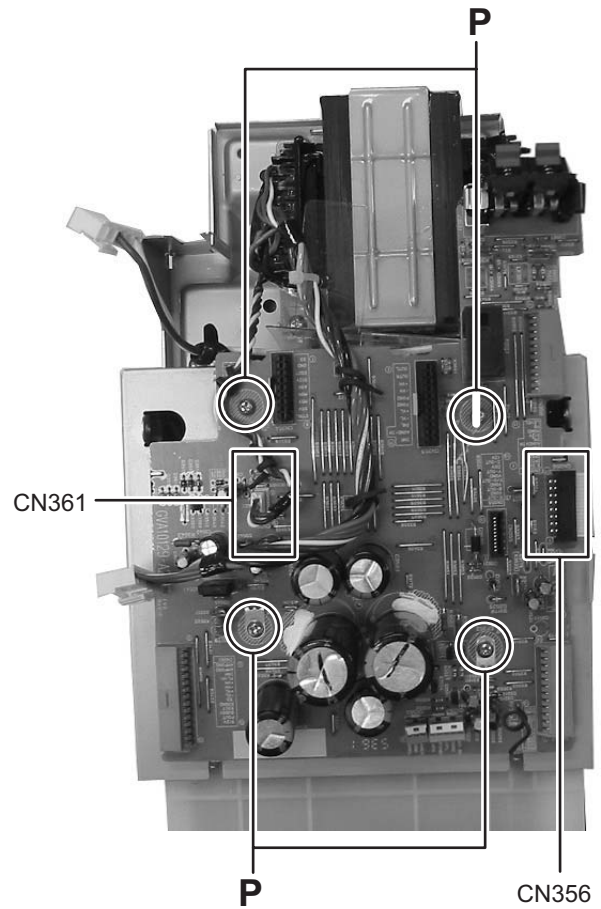


Fig.15

3.1.13 Removing the power transformer (Fig.16)

- (1) Remove the four screws **Q** attaching the power transformer.

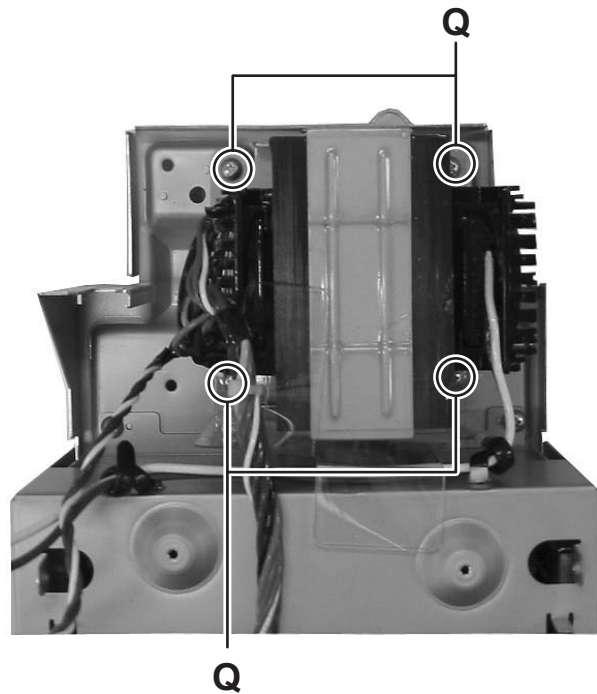


Fig.16

3.1.14 Removing the DVD changer mechanism assembly (Fig.17 to 19)

- (1) Remove the four screws **R** attaching the main chassis.
(See Fig.17)
- (2) Remove the two screws **S** and two screws **T** attaching the
DVD changer mechanism assembly. (See Fig.18, 19)

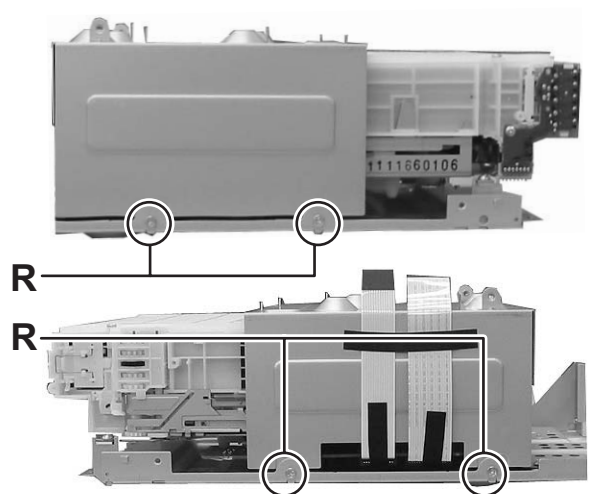


Fig.17

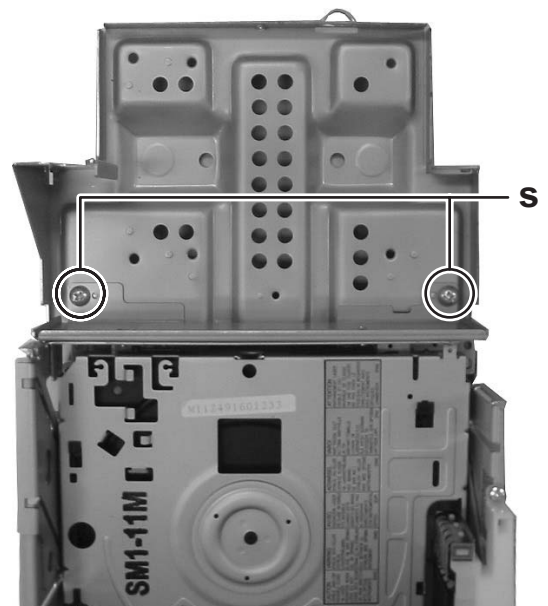


Fig.18

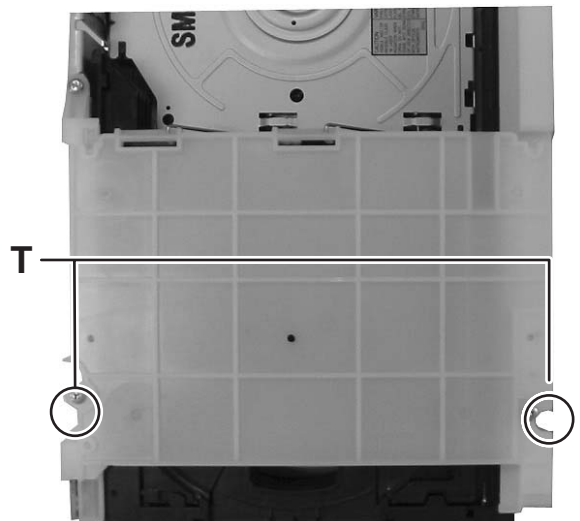


Fig.19

3.1.15 Removing the USB board (Fig.20)

- (1) Remove the three screws **U** attaching the USB board.

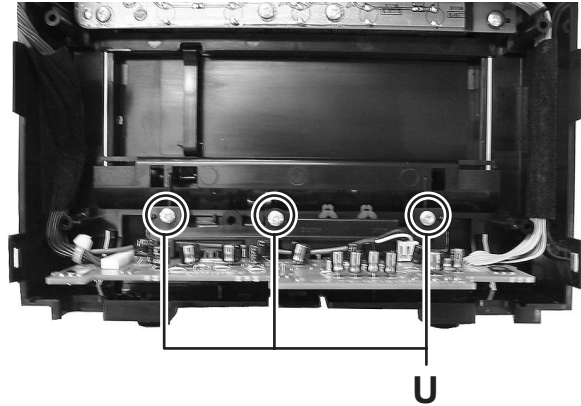


Fig.20

3.1.16 Removing the FL board (Fig.21)

- (1) Remove the four screws **V** attaching the FL board.
- (2) Disconnect the card wire from the connector **CN100** on the FL board.

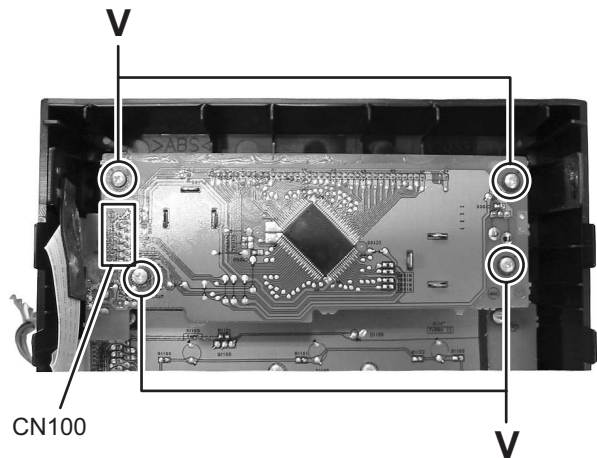


Fig.21

3.1.17 Removing the switch board (Fig.22)

- (1) Remove the volume knob.
- (2) Remove the twelve screws **W** attaching the switch board.

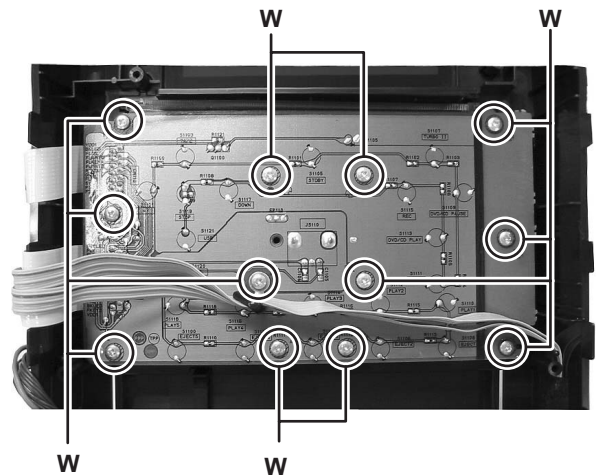


Fig.22

3.2 DVD changer mechanism assembly section

Remove the DVD changer mechanism assembly from the main body. (See "Removing the DVD changer mechanism assembly".)

3.2.1 Removing the tray assemblies

(See Figs.1 to 5)

- (1) From the top side of the main body, remove the two screws **A** from the top cover and release the two joints **a** on the both sides of the DVD changer mechanism assembly. (See Figs.1 and 2.)
- (2) Remove the two rods from the top cover and remove the top cover from the lifter assembly. (See Figs.1 and 2.)
- (3) Remove the open det. lever on the left side of the DVD changer mechanism assembly. (See Fig.3.)
- (4) From the right side of the DVD changer mechanism assembly, draw out the tray assemblies toward the front while pushing the part **b** of the side (R) assembly. (See Figs.4 and 5.)

Note:

The tray can be locked if all tray assemblies are attached.

- (5) From the topside of the DVD changer mechanism assembly, move the stopper tabs **c** in the direction of the arrow and release them. Pull out the tray assemblies from the DVD changer mechanism assembly. (See Fig. 5.)

Note:

Remove the tray assembly from top tray 5 in order.

Reference:

When reattaching the tray assembly, or when removing the disc remaining inside, refer to another section "3.3.15 Taking out the disc in the play mode".

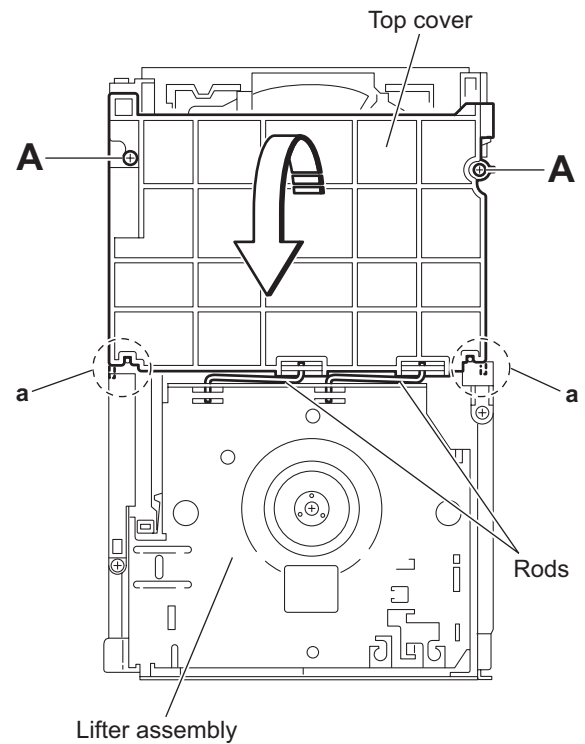


Fig.1

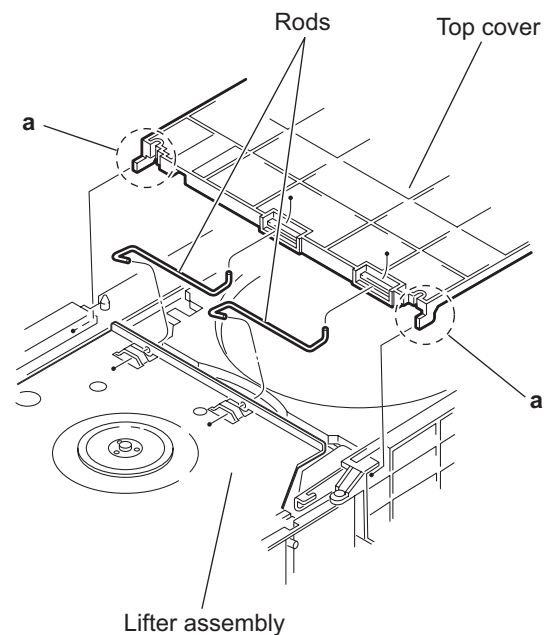


Fig.2

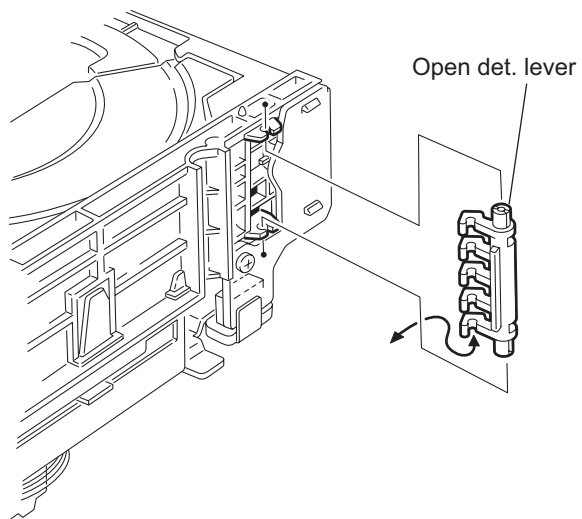


Fig.3

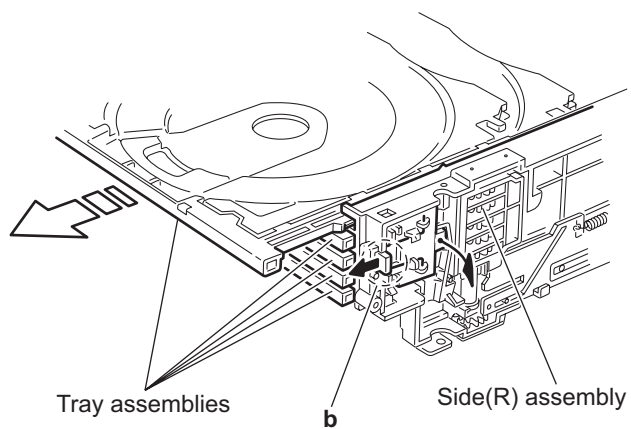


Fig.4

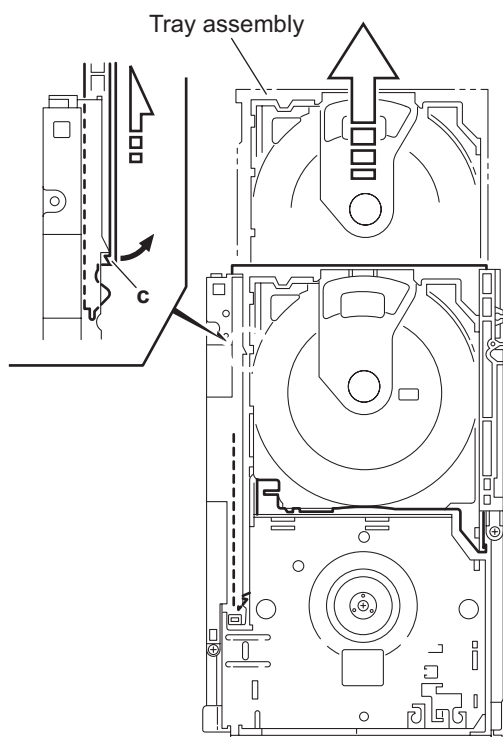


Fig.5

3.2.2 Removing the DVD servo board (See Figs.6 to 8)

Caution:

Solder the short land sections **d** on the DVD pickup before disconnecting the card wire extending from the DVD pickup. If you do not follow this instruction, the DVD pickup may be damaged.

- (1) From the topside of the DVD changer mechanism assembly, solder the short land sections **d** on the DVD pick up. (See Fig.6.)
- (2) From the bottom side of the DVD changer mechanism assembly, disconnect the card wire from the connectors ([CN201](#), [CN451](#)) on the DVD servo board. (See Fig.7.)

Reference:

When connecting the card wire to the connector [CN451](#), pass it through the sections **e** on the DVD traverse mechanism assembly. (See Fig.7.)

- (3) Disconnect the wires from the connectors ([CN452](#), [CN453](#)) on the DVD servo board. (See Fig.7.)
- (4) Remove the two screws **B** attaching the DVD servo board. (See Fig.7.)
- (5) From the reverse side of the DVD servo board, release the lock of the connector [CN101](#) in the direction of the arrow and disconnect the card wire. (See Fig.8.)

Caution:

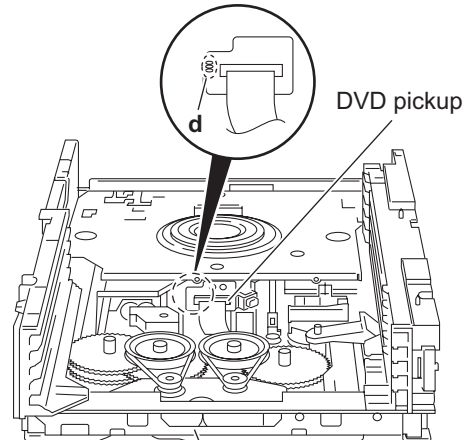
Unsolder the solders from the short land sections **d** after reassembling. (See Fig.6.)

3.2.3 Removing the switch board (See Fig.7)

- (1) From the bottom side of the DVD changer mechanism assembly, remove the screw **C** attaching the switch board on the DVD changer mechanism assembly.
- (2) Disconnect the wires from the connectors ([CN452](#), [CN453](#)) on the DVD servo board.
- (3) Release the wires from the section **f** and remove the switch board.
- (4) Release the wires from the sections **g** and remove the switch board.

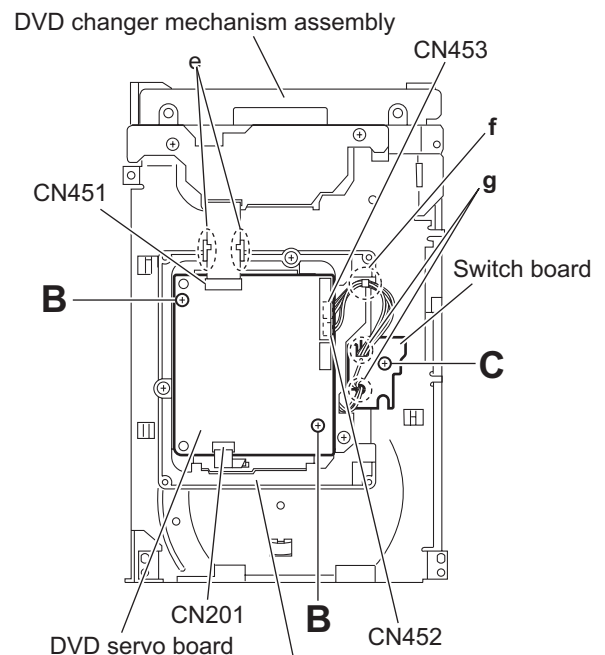
Reference:

When reassembling, pass the wires through the sections (**f**, **g**) as before.



DVD changer mechanism assembly

Fig.6



DVD servo board

DVD traverse mechanism assembly

Fig.7

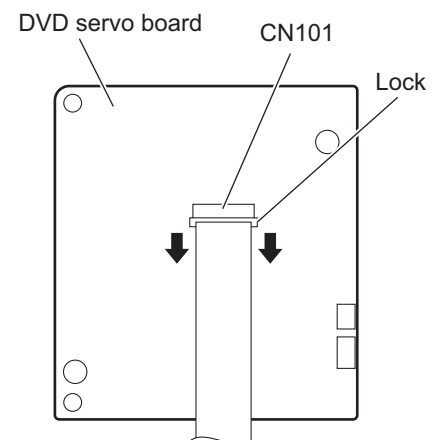


Fig.8

3.2.4 Removing the motor board (See Figs.9 and 10)

- (1) From the top side of the DVD changer mechanism assembly, remove the two belts from the motor pulleys. (See Fig.9.)

Note:

Take care not to attach grease on the belt.

- (2) Remove the two screws **D** attaching the motors to the loader assembly. (See Fig.9.)
- (3) From the bottom side of the DVD changer mechanism assembly, remove the two screws **E**. (See Fig.10.)
- (4) Disconnect the connector **CN2** on the motor board from the tray switch board and remove the motor board. (See Fig.10.)
- (5) Disconnect the card wire from the connector **CN1** on the forward side of the motor board. (See Fig.10.)

Note:

When connecting the card wire, let the card wire through the slots **h** of the motor board. (See Fig.10.)

Reference:

You need not to remove the tray assemblies, and in such case, move it.

3.2.5 Removing the motor (See Fig. 10)

- Remove the motor board.

- (1) From the reverse side of the motor board, unsolder the four soldered sections **i** on the motor board.
- (2) From the forward side of the motor board, remove the motors.

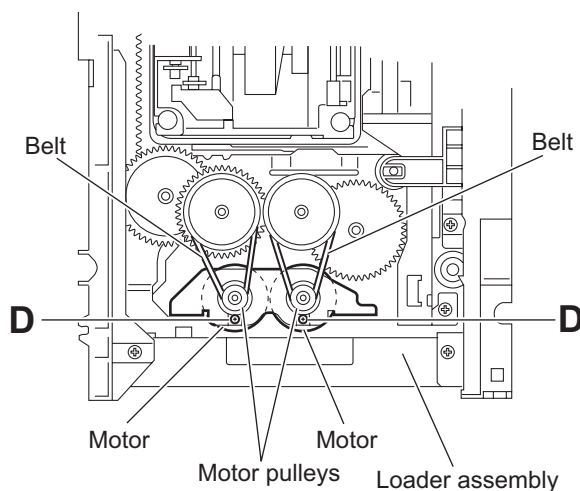


Fig.9

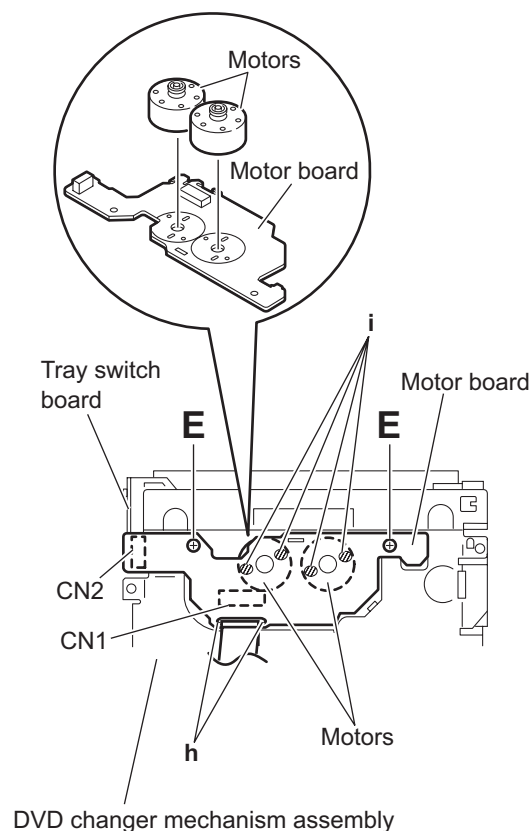


Fig.10

3.2.6 Removing the DVD traverse mechanism assembly (See Fig.11)

- Remove the tray assemblies and DVD servo board.
 - (1) From the bottom side of the DVD changer mechanism assembly, remove the three screws **F** attaching the DVD traverse mechanism assembly.
 - (2) Remove the wires from the section **j**.
 - (3) Take out the DVD traverse mechanism assembly from the DVD changer mechanism assembly.

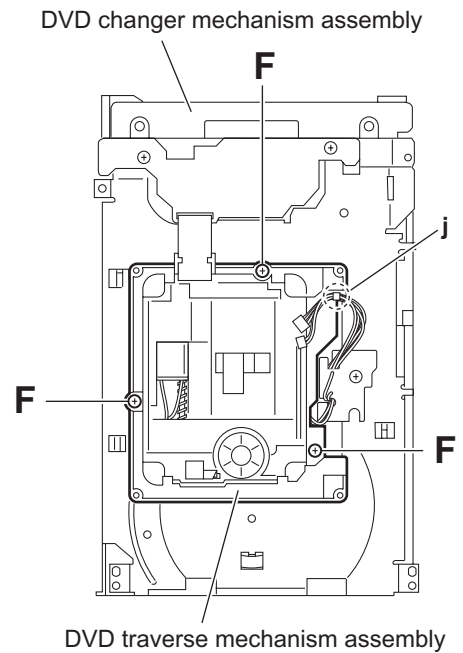


Fig.11

3.2.7 Removing the DVD pickup (See Figs.12 to 14)

- Remove the tray assemblies, DVD servo board and DVD traverse mechanism assembly.
 - (1) From the top side of the DVD traverse mechanism assembly, release the lock of the connector on the DVD pickup and disconnect the card wire in the direction of the arrow. (See Fig.12.)
 - (2) Turn the screw shaft gear in the direction of the arrow 1 to move the DVD pickup in the direction of the arrow 2. (See Fig.12.)
 - (3) Remove the screw **G** attaching the feed bracket and remove the feed bracket from the sections **k**. (See Fig.12.)
 - (4) Release the claw **m** of the thrust spring in the direction of the arrow and remove the thrust spring. (See Fig.12.)
 - (5) Remove the guide shaft from the sections (**n**, **p**) on the C.TM chassis. (See Fig.13.)
 - (6) Remove the section **q** of the DVD pickup. (See Fig.13.)
 - (7) Remove the two screws **H** attaching the rack arm spring and rack arm. (See Fig.14.)
 - (8) Pull the guide shaft from the DVD pickup in the direction of the arrow. (See Fig.14.)

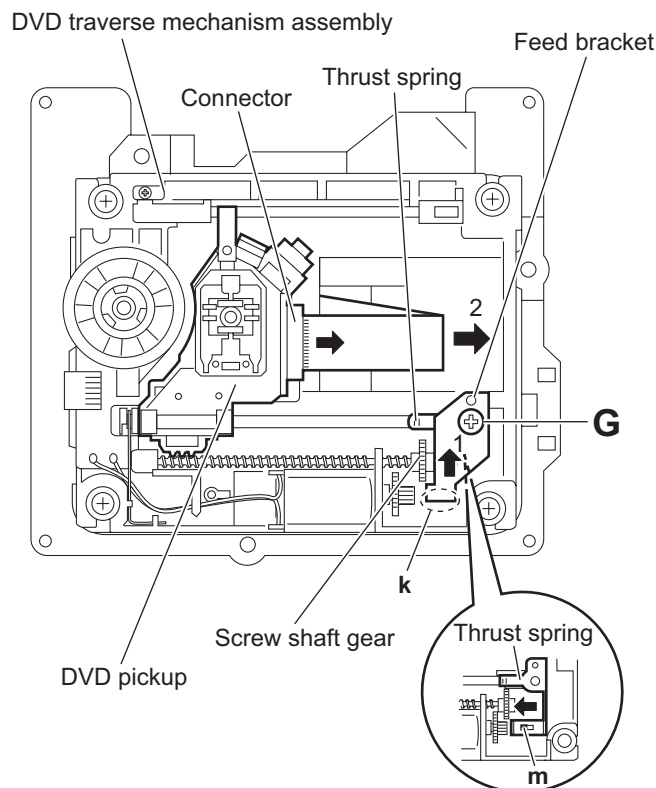


Fig.12

3.2.8 Attaching the DVD pickup (See Figs.12 to 14)

- (1) Attach the guide shaft to the DVD pickup and attach the rack arm spring and rack arm with the screws **H**. (See Fig.14.)
- (2) Attach the section **q** of the DVD pickup to the C.TM chassis first and attach the guide shaft to the sections (**n**, **p**). (See Fig.13.)

Reference:

When attaching the guide shaft to the section **p**, attach it under the rod spring. (See Fig.13.)

- (3) Attach the thrust spring and feed bracket with the screw **G**. (See Fig.12.)
- (4) Turn the screw shaft gear in the direction of the arrow 1 to move the DVD pickup in the direction of the arrow 2. (See Fig.15.)
- (5) Connect the card wire to the connector on the DVD pickup. (See Fig.15.)

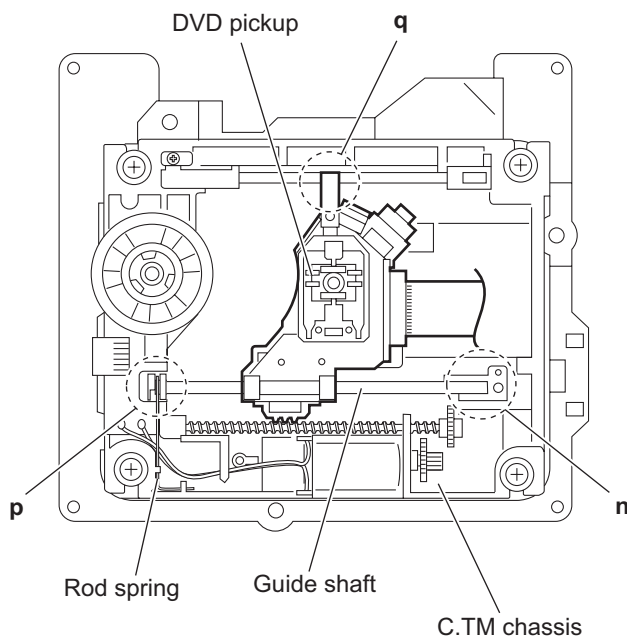


Fig.13

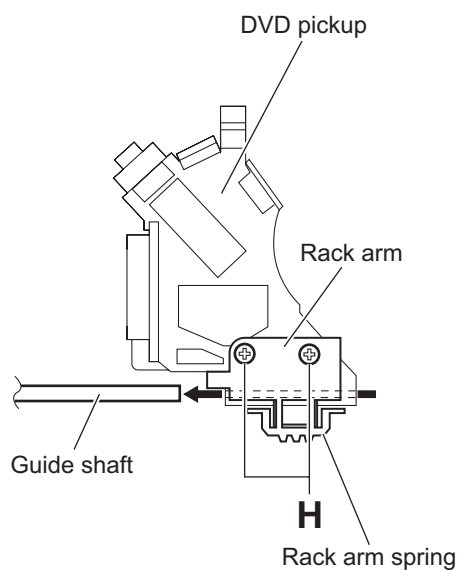


Fig.14

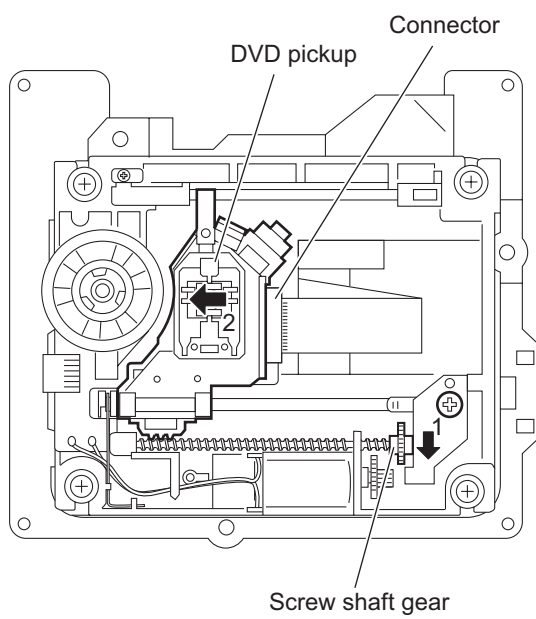


Fig.15

3.2.9 Removing the spindle motor board (See Figs.16 and 17)

- Remove the tray assemblies, DVD servo board and DVD traverse mechanism assembly.
 - (1) From the top side of the DVD traverse mechanism assembly, remove the wires from the soldered sections **r** on the spindle motor board. (See Fig.16.)
 - (2) From the bottom side of the DVD traverse mechanism assembly, remove the three screws **J** attaching the spindle motor board. (See Fig.17.)

Reference:

When attaching the spindle motor board, let the card wire through the hole **s** on the C.TM chassis. (See Fig.17.)

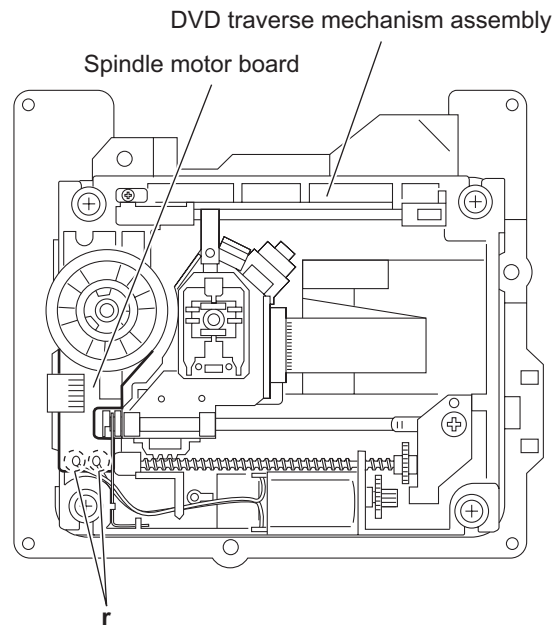


Fig.16

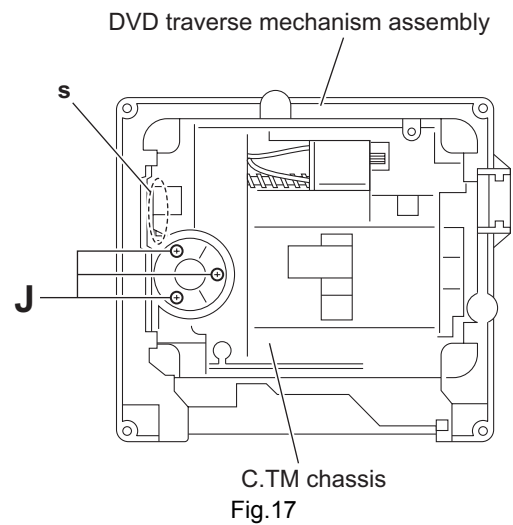


Fig.17

3.2.10 Removing the feed motor (See Figs.18 and 19)

- Remove the tray assemblies and DVD traverse mechanism assembly.
- (1) From the top side of the DVD traverse mechanism assembly, remove the screw **K** attaching the feed bracket and remove the feed bracket from the sections **t**. (See Fig.18.)
- (2) Release the claw **u** of the thrust spring in the direction of the arrow and remove the thrust spring. (See Fig.18.)
- (3) Remove the screw shaft from the section **v** and remove it in the direction of the arrow. (See Fig.19.)
- (4) Remove the middle gear. (See Fig.19.)
- (5) Remove the screw **L** attaching the feed motor to the C.TM chassis. (See Fig.19.)
- (6) Remove the wires from the soldered sections **w** on the spindle motor board. (See Fig.19.)
- (7) Take out the feed motor from the motor base.

Reference:

After attaching the feed motor, pass the wires through the sections **x** on the C.TM chassis as before. (See Fig.19.)

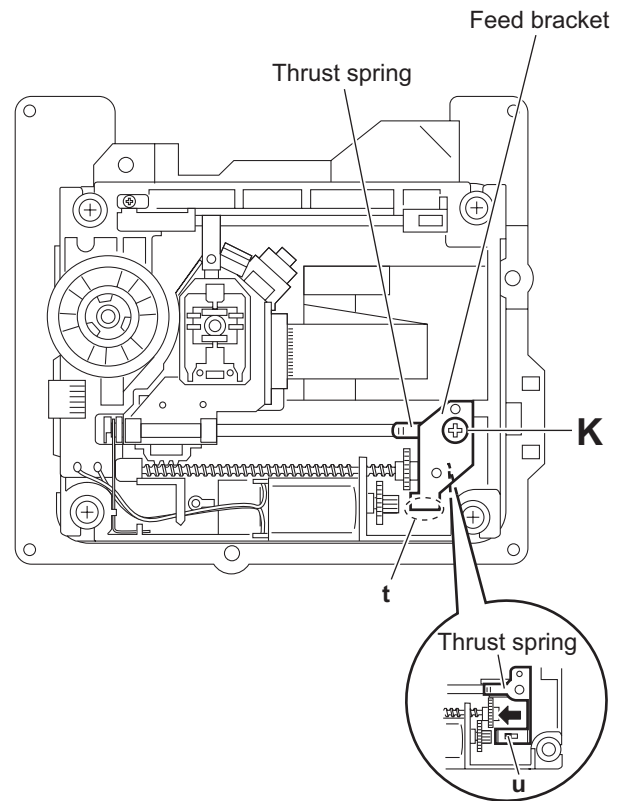


Fig.18

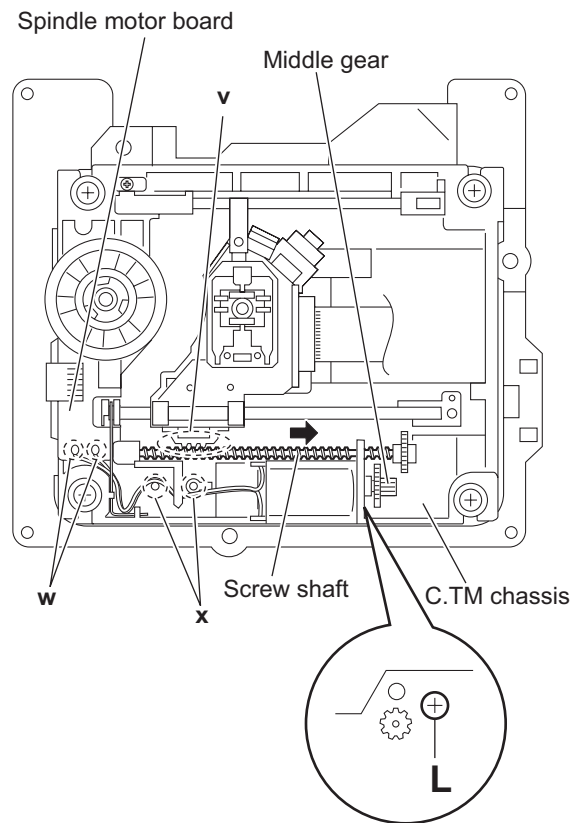
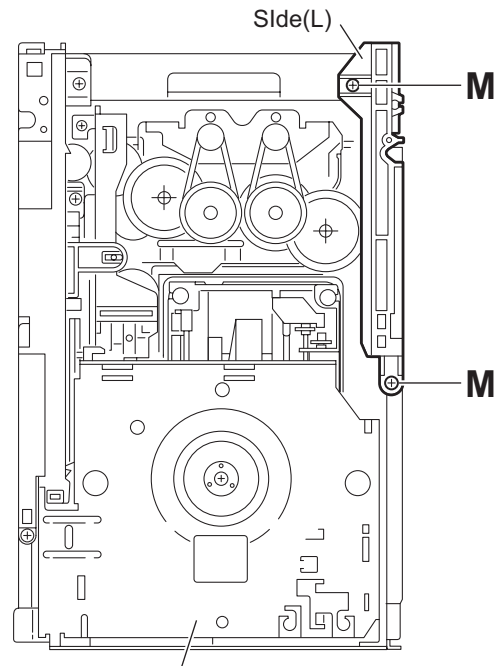


Fig.19

3.2.11 Removing the side (L) and tray switch board (See Figs.20 to 22)

- Remove the tray assemblies.

- (1) From the topside of the DVD changer mechanism assembly, remove the two screws **M** attaching the side (L). (See Fig.20.)
- (2) From the left side of the DVD changer mechanism assembly, disconnect the connector **CN3** on the tray switch board from the motor board and detach the side (L) in an upward direction. (See Fig.21.)
- (3) Remove the screw **N** attaching the tray switch board to the side (L). (See Fig.22.)
- (4) Release the joint tab **y** of the side (L) in the direction of the arrow 1 and release the joint tab **z** while removing the tray switch board in the direction of the arrow 2. (See Fig.22.)



DVD changer mechanism assembly
Fig.20

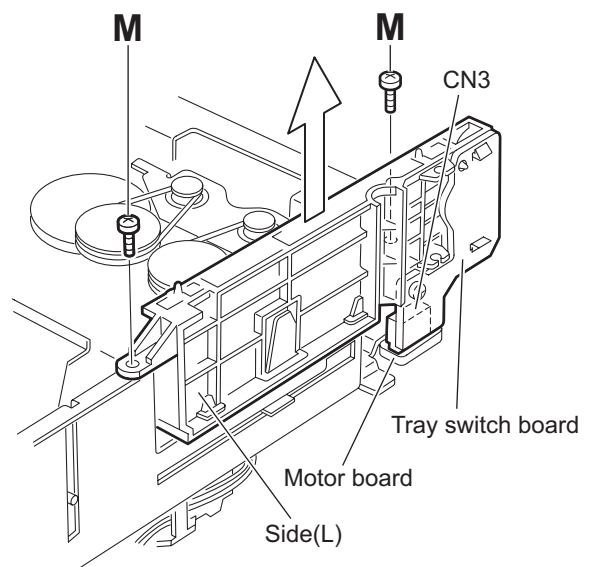


Fig.21

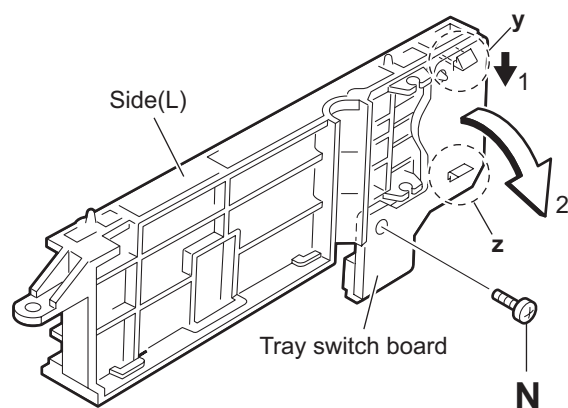


Fig.22

3.2.12 Removing the side (R) assembly (See Fig.23 to 27)

- Remove the tray assemblies and DVD servo board.
 - (1) From the inside of the side (R) assembly, release the two tabs **aa** of the gear cover and remove the gear cover outward. (See Figs.23 and 24.)
 - (2) From the right side of the DVD changer mechanism assembly, remove the elevator spring attached to the hook **ab** of the loader assembly. (See Figs.24 and 25.)
 - (3) From the top side of the DVD changer mechanism assembly, turn the gear 1 clockwise to move the elevator cam rearward. (See Fig.25.)
 - (4) Move the two slots **ac** and joint **ad** of the elevator cam and remove the elevator cam outward. (See Fig.25.)
 - (5) Remove the three screws **P** and detaches the side (R) assembly upward. (See Figs.26 and 27.)

Note:

When reattaching the side (R) assembly, make sure to fit the shaft (part **ae**) into the slot of the select lever. (See Fig.26.)

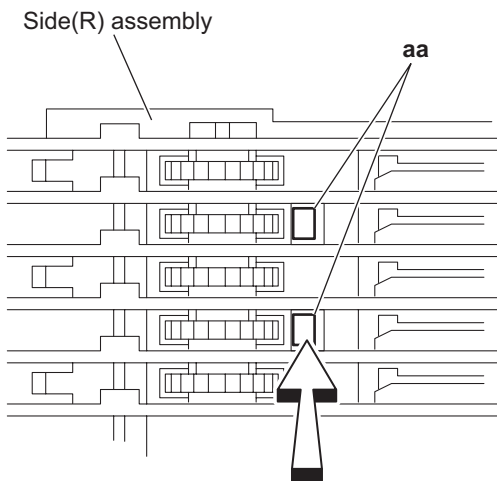


Fig.23

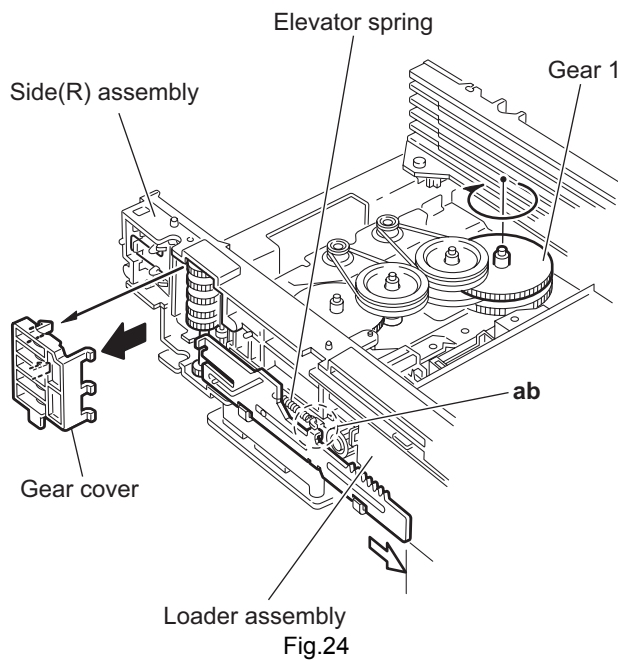


Fig.24

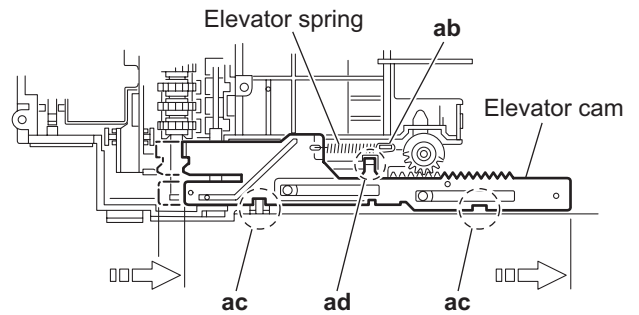


Fig.25

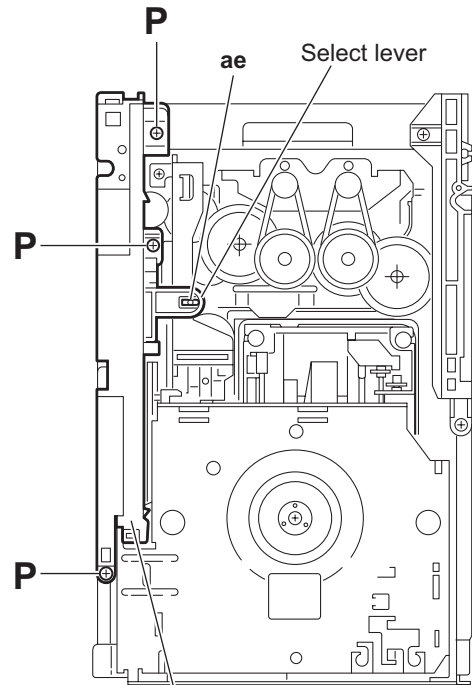


Fig.26

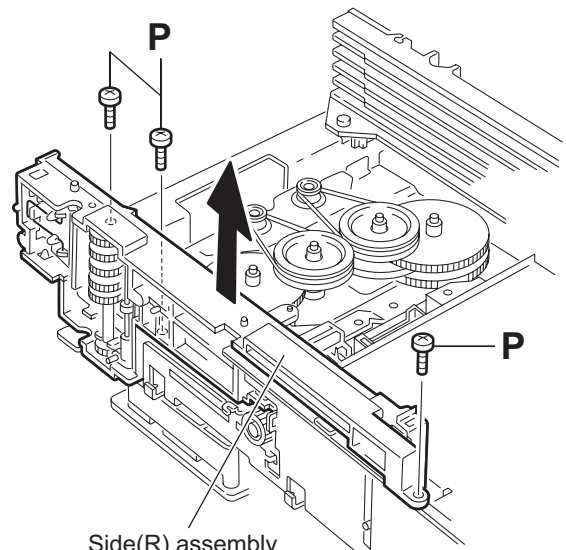


Fig.27

3.2.13 Removing the lifter assembly (See Figs.28 to 32)

- Remove the tray assemblies, DVD servo board, side (L) and side (R) assembly.

- (1) From the top side of the DVD changer mechanism assembly, turn the gear 1 clockwise to move the lifter assembly upward. (See Figs.28 and 29.)
- (2) Turn the gear 2 clockwise to move the hook toward the front until it stops. (See Figs.28 and 29.)
- (3) Move the hook stopper in the direction of the arrow 2 while pushing the tab **af** of the hook stopper to unlock it in the direction of the arrow 1 and release four joints **ag** to detach from the rack holder. (See Fig.30.)
- (4) Release the rod (L) from part **ah**. (See Fig.30.)
- (5) Turn the gear 1 clockwise again to move the lifter assembly upward. (See Fig.31.)
- (6) Remove the lifter assembly from the DVD changer mechanism assembly upward at the positions **ai** where the four pins on the both sides of the lifter assembly fit to the notches of the loader assembly. (See Fig.31.)
- (7) Move the lifter assembly in the direction of the arrow and release it from the hook. (See Fig.32.)

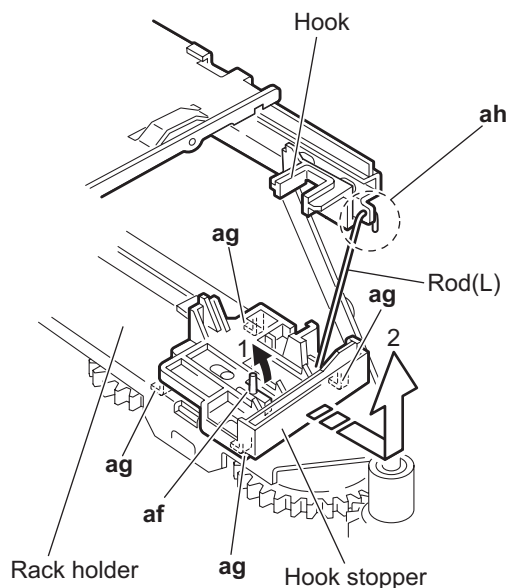
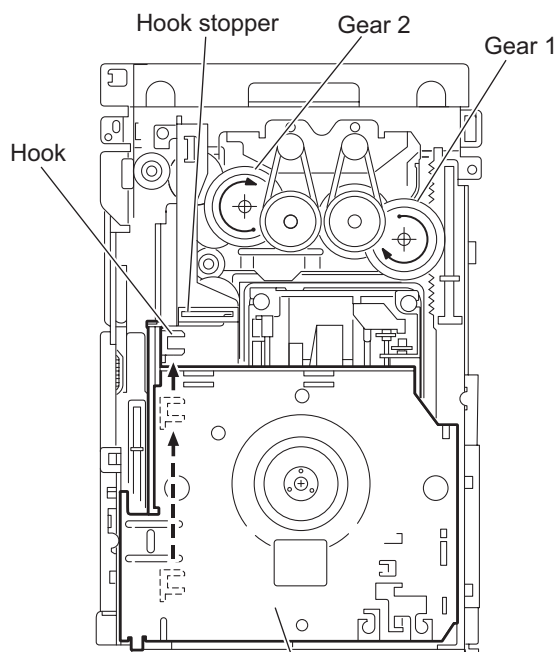


Fig.30



Lifter assembly
Fig.28

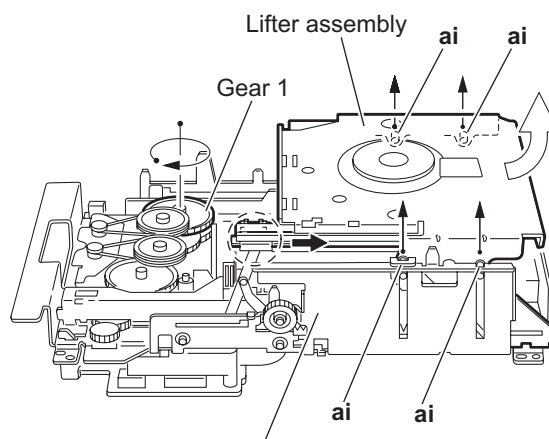


Fig.31

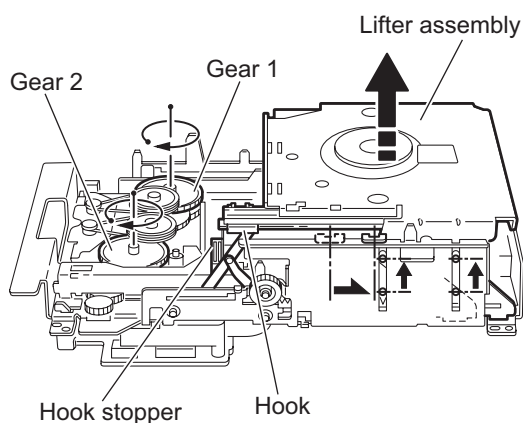


Fig.29

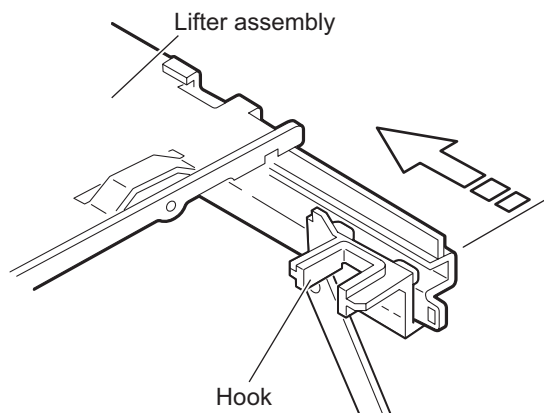


Fig.32

3.2.14 Removing the sensor board and SV resistor (See Fig.33)

- Remove the tray assemblies, side (L), side (R) assembly and lifter assembly.
 - Remove the solders from the soldered sections **aj** on the sensor board and remove the wires.
 - Remove the two screws **Q** and take out the sensor board with the SV resistor.

Reference:

- Remove the soldered section **ap** on the sensor board as required.
- When reassembling, pass the wires through the slot **ak** of the sensor board as before.

Note:

When reattaching the SV. resistor, fit the projection **am** on the bottom of the SV. resistor into slot **an** of the sensor slider.

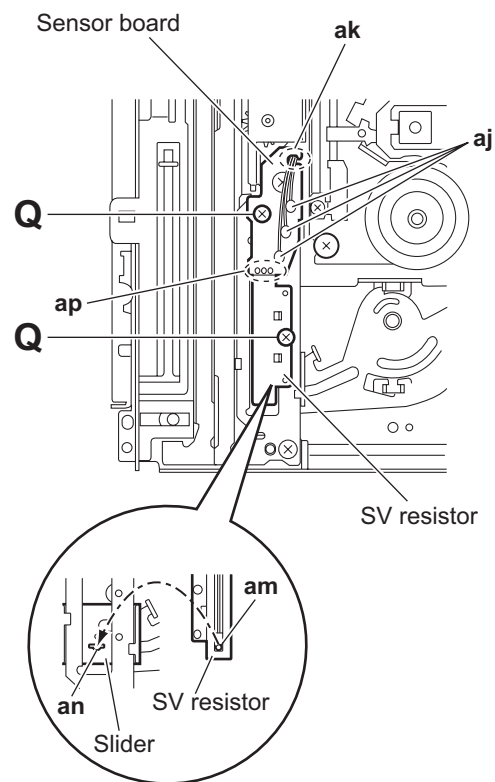


Fig.33

3.2.15 Taking out the disc in the play mode (See Fig.34 to 37)

Reference:

Refer to "3.3.1 Removing the tray assemblies".

- (1) From the top side of the DVD changer mechanism assembly, remove the top cover.
- (2) Unlock the tray assemblies and draw out the tray assemblies toward the front.
- (3) From the top side of the DVD changer mechanism assembly, turn the gear 1 clockwise to move the lifter assembly upward. (See Fig.34.)
- (4) Turn the gear 2 clockwise to move the sub tray remaining inside the lifter assembly toward the front, then pull out.
- (5) Take out the disc on the sub tray. (See Fig.35.)
- (6) After clearing away the disc, insert the sub tray into the main tray. (See Fig.36.)

Note:

When reattaching the sub tray, move the tray stopper on the bottom of the main tray in the direction of the arrow to lock the sub tray certainly. (See Figs.36 and 37.)

- (7) Push the tray assembly toward the DVD changer mechanism assembly and reattach.

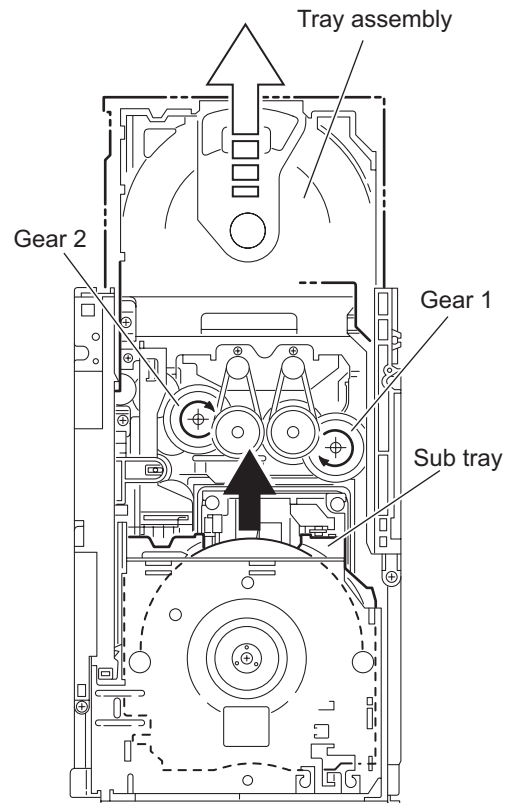


Fig.34

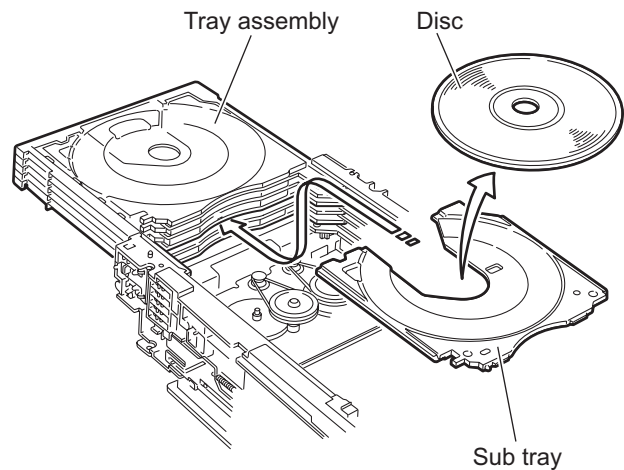


Fig.35

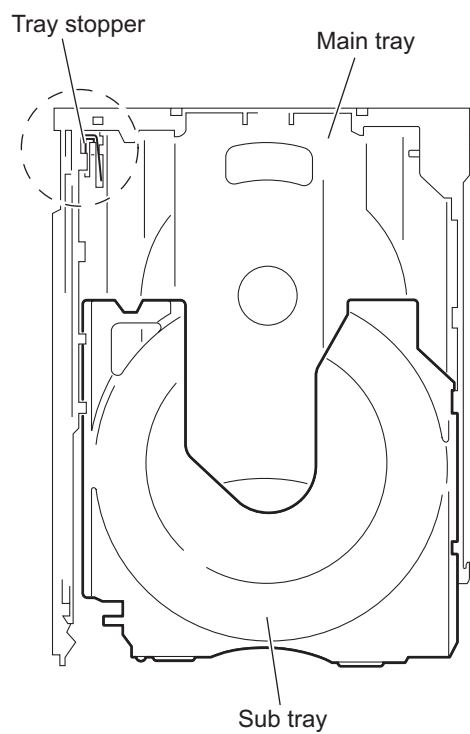


Fig.36

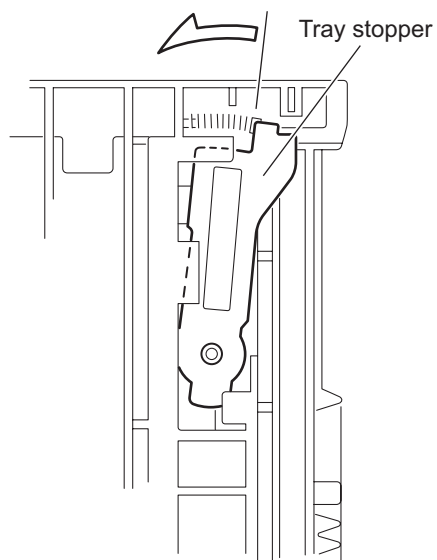


Fig.37

SECTION 4 ADJUSTMENT

4.1 ATTENTION IN SERVICE OF DVD SECTION

- (1) When pickup, Flash ROM ,DVD module board were changed, initialize EEPROM by all means.
- (2) When full initialization was excuted, excute learning with a DVD test disc by all means.
 Test disc : VT-501, VT-502
 Learning method : It is adjusted automatically by normal playback of a DVD disc.

4.2 Test mode

Item	Operation	Managemant
Tray lock	STOP [key] + DISC 1 EJECT (Only during Stanby Mode)	Loader-Mehca is locked. EJECT processing isn't done by pushing EJECT key at tray lock state. Then display to LOCKED/UNLOCKED. EJECT 1 is pushed, pushing STOP again, tray lock is off. Back up to tray locked ON/OFF.
Cold start	[Remocon key] STANDBY/ON + ENTER + 10	Cold start processing. After cold start is activated, FL temporary display COLD' for 2 seconds. Then return to previous display. To activate cold start AC OFF system, then AC ON again.
CLOCK FAST FORWARDING	[Remocon key] STANDBY/ON + ENTER + 2	Fast Forward Clock (Increase clock counter speed) Can only be activated after SYSTEM Clock is set To exit this TEST mode, AC OFF the system, then AC ON again.
FAN ON/OFF Setting	STOP [key] + DISC 2 EJECT (During STANDBY MODE)	Toggle between FAN switch ON and OFF. (FANCTRL : L -> H TOGGLE) This test mode is only effective during STANDBY MODE. Need to set POUTREG to H when FANCTRL is H. Test mode exit when system STANDBY -> P.ON
VOLUME LARGE STEP CHANGE	[Remocon Key] STANDBY/ON + ENTER + 1	VOLUME CHANGE VOLUME STEP MAX(40) -> VOLUME STEP CENTER(20) TOGGLE Normal Operation TEST mode. System returns to normal operation after performing VOLUME CHANGE.
MICON VERSION DISPLAY	[Remocon Key] STANDBY/ON + ENTER + 9	TEMPORARY DISPLAY FOR MICON VERSION (5SEC) After 5 seconds, return to previous display. Each key press will toggle temporary display for the following: SYSCON VERSION -> DVD LSI (BE) VERSION) and DVD MECHA VERSION * DVD LSI (BE & FE) VERSION CAN ONLY BEEN DISPLAY DURING SYSTEM POWER ON IN DVD MODE (WHEN DVD LSI P.ON) * IF THERE IS NO INFORMATION FEEDBACK, SYS-CON WILL DISPLAY "WAIT" BLINKING 0.5SEC ON & OFF Actual FL display SYSCOM version "012417-R***" or "030227-R***"
FL ALL SEGMENT and TEMPERATURE DATA	[Remocon Key] STANDBY/ON + ENTER + >=10	FL ALL SEGMENT ON (NO BLINK) Each key press will toggle between FL ALL SEGMENT, TEMP decimal data and DVD THERMISTOR Temperature data.
DVD test mode	STOP [key] + EJECT 5[key] (Hold during AC In)	Enters DVD-TEST mode. DVD-TEST mode specification based on DVD-MODULE spec. To exit DVD-TEST mode, AC OFF the system, then AC ON again. For Region Rewrite and DVD-AUDIO Device Key Writing, refer to Region Rewrite and Device Key Writing section below for exit procedure.

Item	Operation	Managemant
DVD initialize	>> [key] during DVD test mode	DVD module initialized. FL 8 Segments will display 'INIT' after initialize. " T xxy v0 " <- " T xxy vw " Display will return to DVD Test Mode Area display. (" T xxy vw ") Press Power key to exit this TEST mode. To exit this TEST mode, AC OFF the system, then AC ON again.
DVD region confirm mode	STOP [key] + EJECT 5[key] (Hold during AC In)	FL display " T E*0 " (E=Euro) Region* FL display " T E2 0 " (E=Euro) Region 2 or " TJC10 " (JC=USA/CANADA)Region 1
Tuner test mode	[Remocon key] Standby + enter + 0	eg: V U2 9K " VE 9K " Euro or " VJC 10K " (USA/CANADA) V: version U2: A/UF/UN/US 9K: AM STEP SETTING
SAFETY MODE check by WHAT	STOP + LINE [key] In standby [after safety trigger]	(A) If safety-cassette deck trigger, FL show : " ACM SAFETY " (B) If /protect trigger, FL show : "AMP SAFETY" (C) If /safety-reg trigger, FL show : "REG SAFETY" (D) If flock trigger, FL show : "FAN SAFETY" (E) If DVD temperature trigger, FL show : "DVD-SAFETY"

POWER KEY PRESSED to exit

*Note:

1. Other than Device Key Writing & DVD Region Re-write case, other test mode can be exit by pressing POWER KEY on SET.
2. During any other Test Mode, when POWER KEY is pressed, wait until "POFF OK" displayed (with Backlight LED off) meaning that DVD Test mode is successfully exit.
3. "POFF OK" Display will be indicated for 5sec only, then it will return to Standby Mode Display
4. After "POFF OK" display, system is now go back to normal operation mode.

4.3 Other test mode's operation

1. To enter DVD TEST mode,
 - a. AC POWER OFF
 - b. Press and hold STOP+DVD5 EJECT/CLOSE keys.
 - c. AC POWER ON while holding STOP+DVD5 EJECT/CLOSE keys.
 - d. Sys-con will send the following commands:
(INIT Command, TEST MODE Start)
(MODE STATE REPORT Command, DELIVERY INFO)
(STATUS REQUEST, DESTINATION AND REGION INFO)
(DESTINATION INFO, DESTINATION NUMBER, REGION INFO).
 - e. DVD Mecha will start in TEST MODE, FL will display:

	T		x	x	y		v	w	
--	---	--	---	---	---	--	---	---	--

xx is the received DESTINATION information. Display as follows:

xx = JC/1U/D/E/2U/3U/UB/UT/4U/UY/EE/UF

y = region number

v = study state information from MECHA-CON (Display Byte3 when Byte7 is "0x09")

w = initialization state from MECHA-CON (Display Byte4 when Byte7 is "0x09".Display blank when Byte4 is "0xFF".)

2. To extie DVD TEST mode,
 - a. During TEST MODE (except for Device Key write & DVD Region Re-write), press POWER KEY and wait until "POFF OK" is displayed for 5sec, then system goes into Standby Mode & Backlight LED is off
This means that System now successfully exit the DVD Test Mode & back to normal mode
 - b. To exit TEST mode for Device Key Write & DVD Region Re-write, first AC OFF, then AC ON again to return to normal state.

3. EEPROM INITIALIZATION

(1) NORMAL INITIALIZE

- During DVD TEST MODE, Press >>| key on remote control to start NORMAL EEPROM INITIALIZATION.
- Sys-con will send the following command:
- Mecha will feedback the following information after finish INITIALIZATION:
Status: Byte 0 = 0x00 (NORMAL), Byte 7 = 0x09, Byte 4 = initialization state
- When received status, FL will display:

	T		x	x	y		v	w	
--	---	--	---	---	---	--	---	---	--

w = initialization state from MECHA-CON (Display Byte4 when Byte7 is "0x09". Display blank when Byte4 is "0xFF".)

(2) FULL INITIALIZE

- During DVD TEST MODE, STOP key on set 2 seconds control to start FULL EEPROM INITIALIZATION.
- Sys-con will send the following command:
- Mecha will feedback the following information after finish INITIALIZATION:
Status: Byte 0 = 0x00 (NORMAL), Byte 7 = 0x09, Byte 4 = initialization state
- When received status, FL will display:

	T		x	x	y		v	w	
--	---	--	---	---	---	--	---	---	--

w = initialization state from MECHA-CON (Display Byte4 when Byte7 is "0x09". Display blank when Byte4 is "0xFF".)

4. DEVICE KEY CHECKSUM DISPLAY

- During DESTINATION INFO display screen (1), press MENU key to enter DEVICE KEY CHECKSUM display
(TEST MODE, MODE STATE, CHECK MODE)
(DEVICE KEY CHECKSUM)

FL will display (Example):

	X	X	X	X	X	X	X	X	
--	---	---	---	---	---	---	---	---	--

DISPLAY BOTH CPPM AND CPRM

5. DVD CHECK MODES

- Press MENU key again to enter CHECK MODE.
(TEST MODE, MODE STATE, CHECK MODE)

FL Display:

		C	H	E	C	K			
--	--	---	---	---	---	---	--	--	--

Press '1' key on REMOTE CONTROL to START PLAYBACK.

FL Display:

	P	L	A	Y	B	A	C	K	
--	---	---	---	---	---	---	---	---	--

Press '2' key on REMOTE CONTROL to perform SEARCH TNO+1

FL Display:

	W	O	B	B	L	E			
--	---	---	---	---	---	---	--	--	--

(2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '3' key on REMOTE CONTROL to perform SEARCH TNO-1

FL Display:

		C	H	E	C	K			
--	--	---	---	---	---	---	--	--	--

Press '4' key on REMOTE CONTROL to light up CD_LD and display laser current.

FL Display:

	C	D	L	D		L	S	R	
--	---	---	---	---	--	---	---	---	--

(2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

(Static) cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '5' key on REMOTE CONTROL to light up DVD_LD and display laser current.

FL Display:

	C	D	L	D		L	S	R	
--	---	---	---	---	--	---	---	---	--

 (2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

 (Static)

cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '6' key on REMOTE CONTROL to enter DVD x 2 JITTER MEASUREMENT MODE

FL Display:

	J	I	T	X	1				
--	---	---	---	---	---	--	--	--	--

 (2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

 (Static)

cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '7' key on REMOTE CONTROL to view EEPROM (MECHA) content in -1 address step.

FL Display:

	E	E	P			B	W	D	
--	---	---	---	--	--	---	---	---	--

 (2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

 (Static)

cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '8' key on REMOTE CONTROL to view EEPROM (MECHA) content in +1 address step.

FL Display:

	E	E	P			F	W	D	
--	---	---	---	--	--	---	---	---	--

 (2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

 (Static)

Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '9' key on REMOTE CONTROL to perform SEARCH DVD_SL DESIGNATED POSITION and JITTER MEASUREMENT

FL Display:

	T	E	M	P					
--	---	---	---	---	--	--	--	--	--

 (2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

 (Static)

cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '10' key on REMOTE CONTROL to perform SEARCH DVD_DL PARALLEL DISC DESIGNATED POSITION and JITTER MEASUREMENT

FL Display:

	D	V	D	-	D	L			
--	---	---	---	---	---	---	--	--	--

 (2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

 (Static)

cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '0' key on REMOTE CONTROL to perform monitor output.

FL Display:

	M	O	N	I	T	O	R		
--	---	---	---	---	---	---	---	--	--

 (2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

 (Static)

cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press '>=10' key to INITIALIZE EEPROM (MECHA)

FL Display:

	I	N	I	T					
--	---	---	---	---	--	--	--	--	--

 (2 seconds)

Press PLAY key on REMOTE CONTROL to start PLAYING and obtain LASER CURRENT and JITTER value.

FL Display:

	L	S	R		J	I	T		
--	---	---	---	--	---	---	---	--	--

 (2 seconds)

Status: 00(NORMAL) XX XX cc cc jj jj

	c	c	c	c	j	j	j	j	
--	---	---	---	---	---	---	---	---	--

 (Static) cccc: Byte 0 = 0x00, Byte 7 = 0x00, Byte 3,4 → "DISPLAY
jjjj: Byte 0 = 0x00, Byte 7 = 0x00, Byte 5,6 → "DISPLAY

Press STOP key on REMOTE CONTROL to stop JITTER measurement.

FL display remains.

	F	F	F	F	F	F	F	F	
--	---	---	---	---	---	---	---	---	--

 (Static)

b. During CHECK mode, at any time press MENU key to exit CHECK mode and return to starting screen of DVD TEST MODE.

* During TEST mode, at press POWER key send POWER OFF command to MECHA-CON and if poweroff permit flag is 1, display "POFF OK"

	P	O	F	F		O	K		
--	---	---	---	---	--	---	---	--	--

SECTION 5

TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



Victor Company of Japan, Limited
Audio/Video Systems Category 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

(No.MB505)



Printed in Japan
VPT

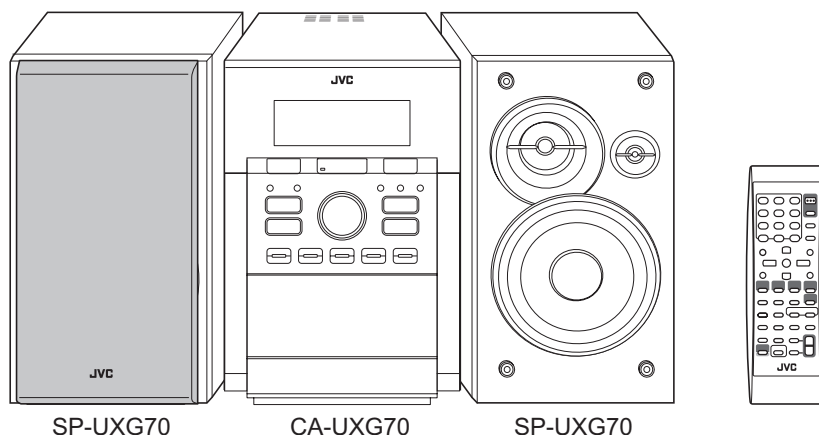
JVC

SCHEMATIC DIAGRAMS

MICRO COMPONENT SYSTEM

**UX-G70J,UX-G70C,UX-G70B,UX-G70E
UX-G70EN,UX-G70EV,UX-G70EE**

CD-ROM No.SML200606



Radio Data System

**MP3/WMA
PLAY BACK**

**MPEG-4
ASF PLAYBACK**

Digital Direct Progressive Scan

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

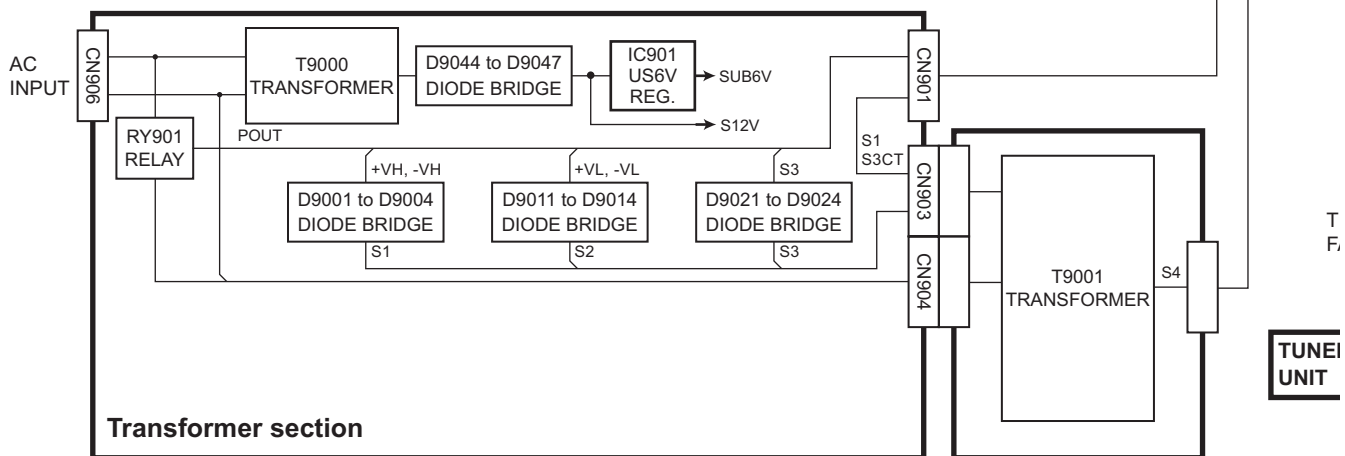
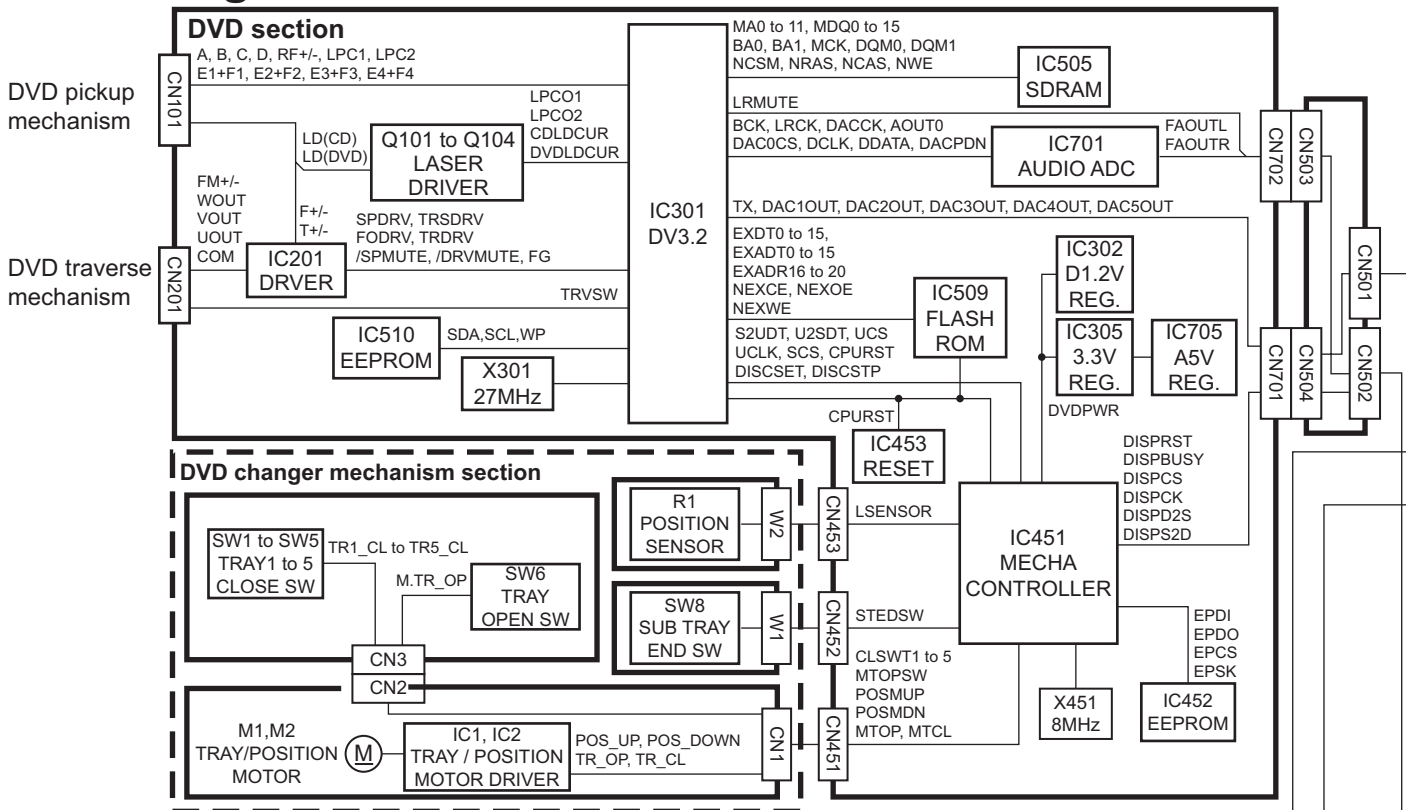
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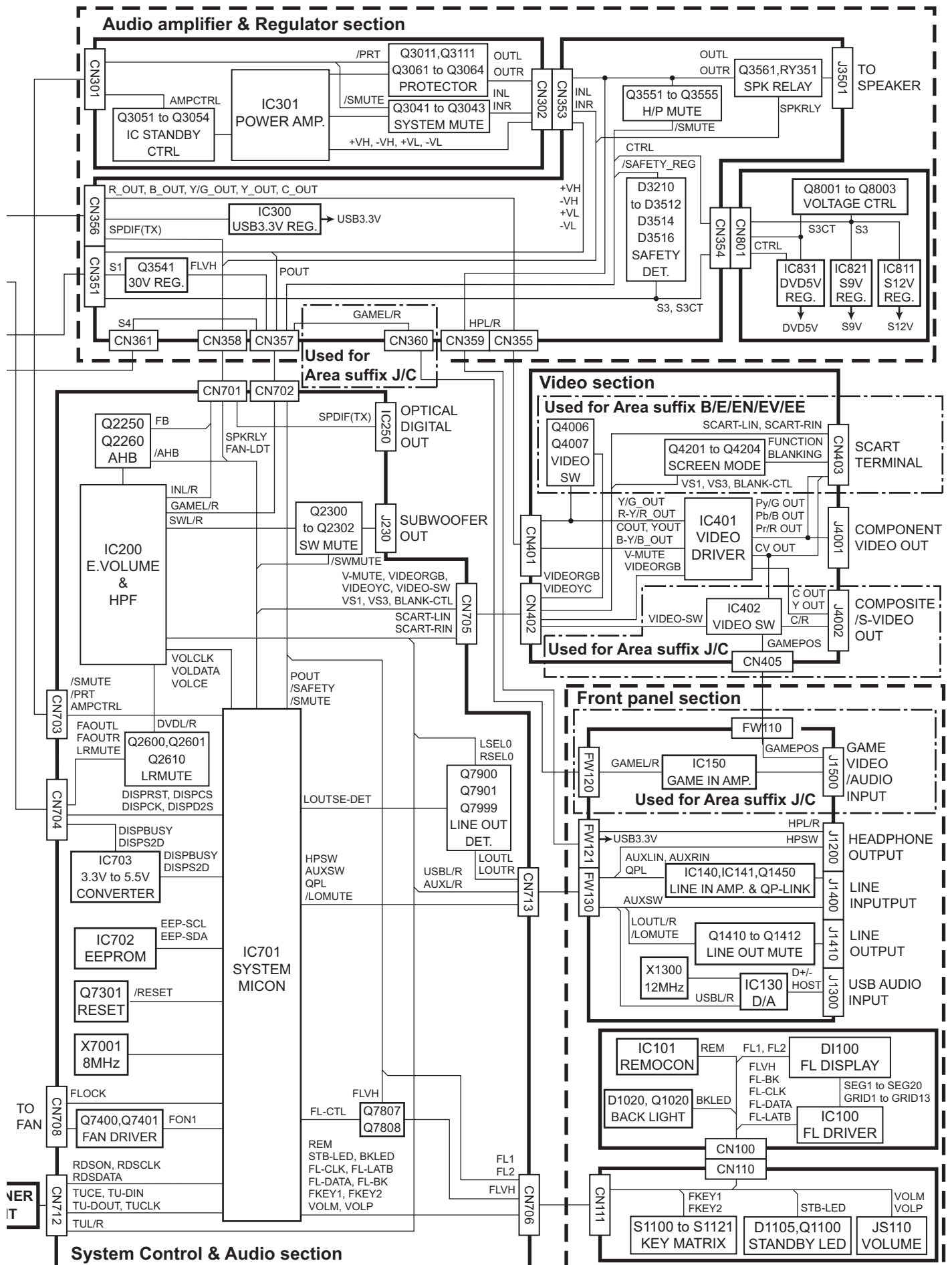
Block diagrams	2-1
Standard schematic diagrams	2-3
Printed circuit boards	2-19 to 24

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▬) and ICP (●) or identified by the "A" mark nearby are critical for safety.

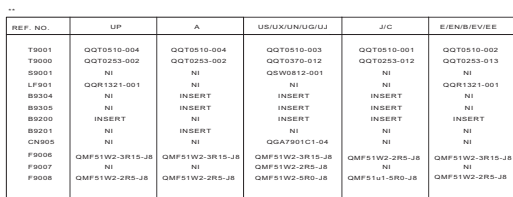
< MEMO >

Block diagram





■ Primary section

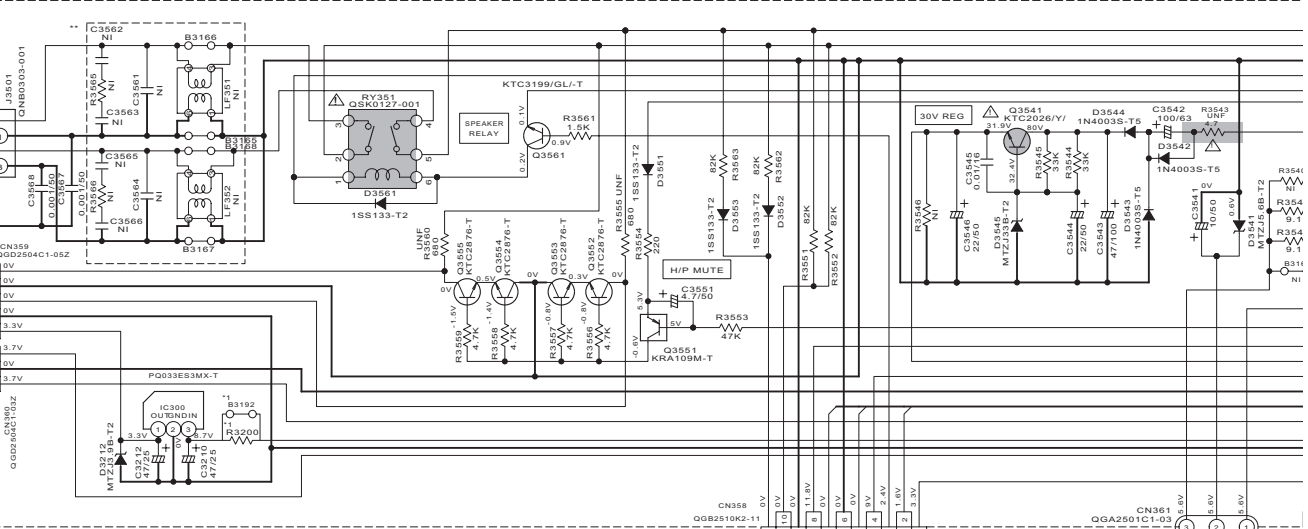
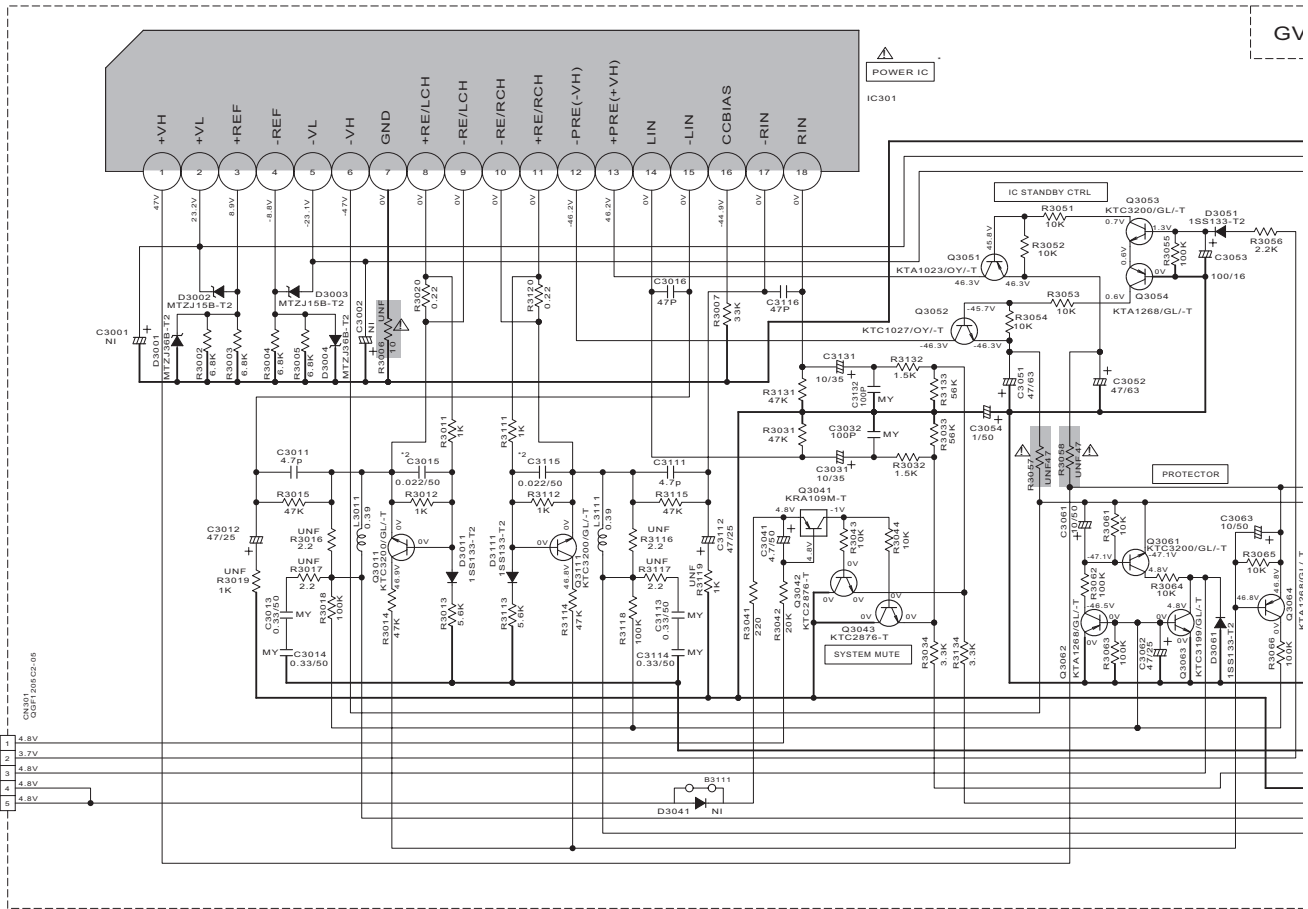


2-3

Amplifier section

FROM CN703 OF GVA10128-A1
(PAGE 3/9)

FROM FW120 OF GVA10128-A4
(PAGE 4/9)



REF. NO.	J/C ONLY	OTHERS
B3190	QUY0150-050Y	NI
B3191	NI	QUY0150-050Y
B3192	NI	QUY0150-050Y
R3200	100	NI

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- DVD STOP MODE
 - UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/4W ±5% CARBON FILM RESISTOR. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN „F“(p-pF). ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(„F“)/RATED VOLTAGE (V). ALL INDUCTANCE VALUES ARE IN „H“(m-mH). ALL DIODES ARE 1S5133-T2 UNLESS SPECIFIED
 - NI = NO INSERT

REF. NO.	ALL VERSION
C3015	0.022/50
C3115	0.022/50

DIGITAL TRANSISTOR CONSTRUCTION	R1	R2
KRA109M-T	47K	22K
KRA110M-T	4.7K	-
KRC102M-T	10K	10K

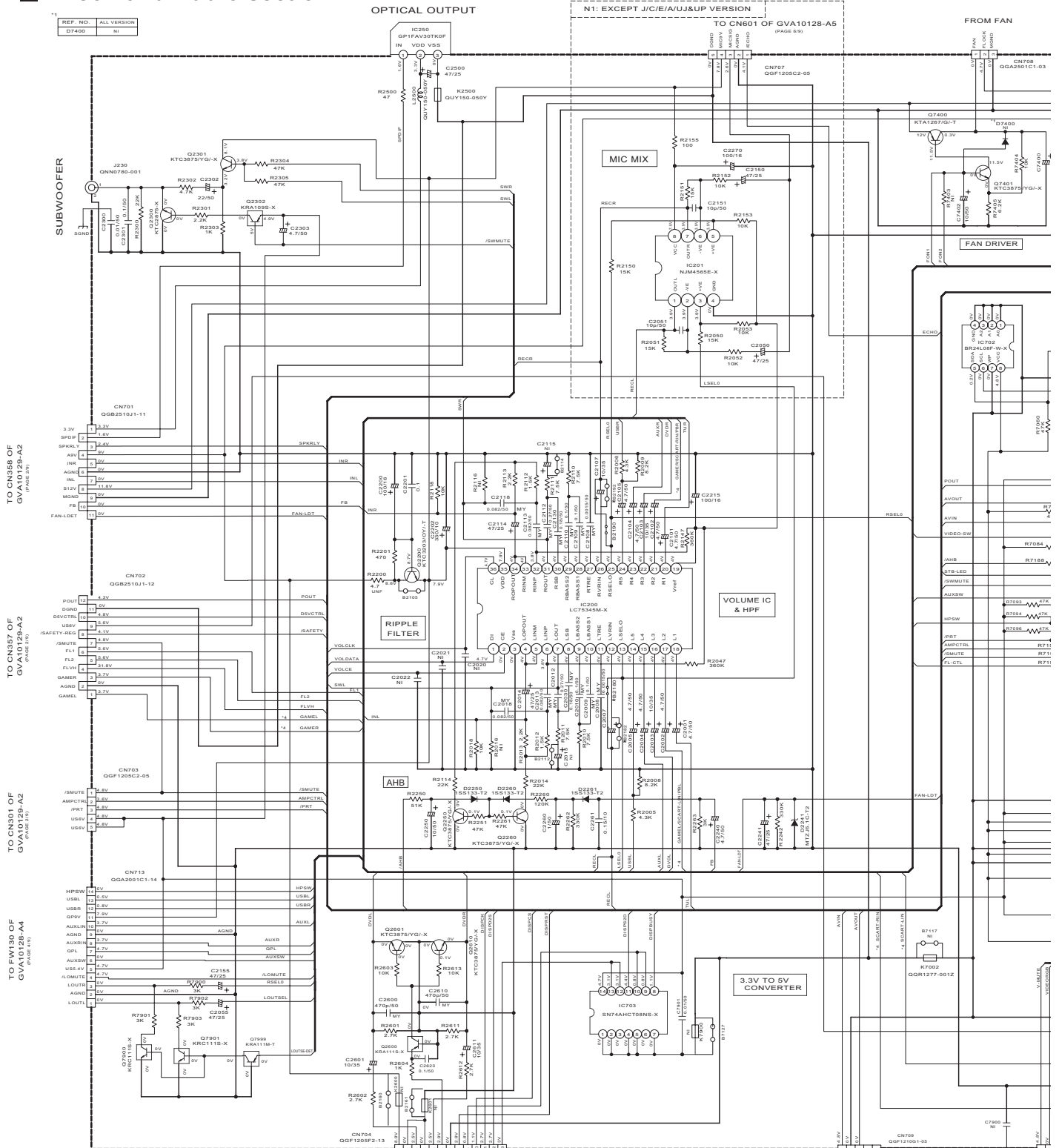
TO CN701 OF GVA10128-A1
(PAGE 3/9)

REF. NO.	J/C	OTHERS
IC301	STK412-400	STK412-490-E
REF. NO.	B/E/NE/VE/EE UP	OTHERS
B3165	NI	QUY0150-050Y
B3166	NI	QUY0150-050Y
B3167	NI	QUY0150-050Y
B3168	NI	QUY0150-050Y
R3555	4.7 OHM	NI
R3556	3300P/50	NI
C3551	4700P/50	NI
C3552	4700P/50	NI
C3553	4700P/50	NI
C3554	4700P/50	NI
C3555	4700P/50	NI
C3556	4700P/50	NI

FROM TRANSFORMER
(PAGE 1/9)

REF. NO.	J/C	OTHERS
Q3301	KRA110M-T	NI
R3504	QRT010J-R33X	NI
R3503	QRT010J-R33X	NI
B3179	NI	QUY150-050Y
REF. NO.	J/C	OTHERS
D8001	MTZJ5.1C-T2	MTZJ5.6C-T2

Icon and Audio section



NOTES:
DIGITAL TRANSISTOR CONSTRUCTION

	R1	10K	KRC1115-X
	R1	10K	KRA111M-X
	R1	R2	KRC1025-X
	R1	R2	KRA1095-X

ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN pF(pF).
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) RATED VOLTAGE (V).
ALL INDUCTANCE VALUES ARE IN μH(mH).
ALL DIODES ARE 1S5133-T2

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION - DVD STOP MODE
 - UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/4W ±5% CARBON FILM RESISTOR OR 0.063W ±5% THICK FILM CHIP RESISTOR
 - ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR
 - 3.NI - NO INSERT

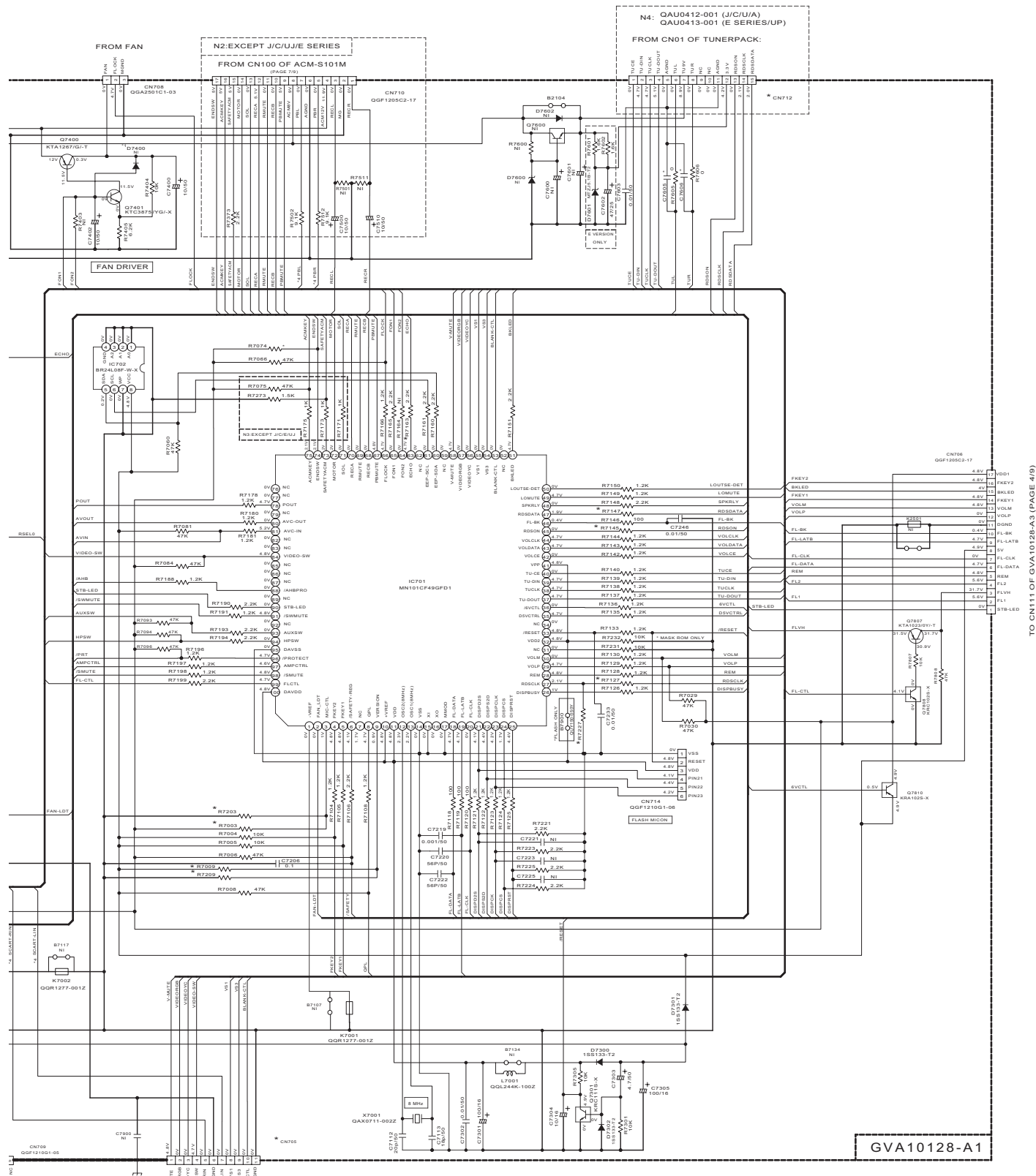
TO CN502 OF GVA10128-A5
(PAGE 49)

VERSION	J/C	UJ/UJ	US/UN/UGX	E/B/E/NEV	A / UP	REMARK
R7127	NI	NI	NI	2.2K	NI	RDSCLK
R7145	NI	NI	NI	1.2K	NI	RDSSTA
R7147	NI	NI	NI	2.2K	NI	RDSSTA
R7227	10K	10K	NI	10K	10K	RDSCLK
CN712	GGF1205C1-11	GGF1205C1-11	GGF1205C1-11	GGF1205C1-11	GGF1205C1-11	TUNER CONN.
CF705/C705	NI	NI	0.0027/50	0.0027/50	0.0027/50	TUNER
R7074	NI	10K	NI	10K	10K	ENDSW
C2097/C2107	NI	10/35	NI	NI	NI	LEADER/RELE
B2190/B2192	5MM	NI	5MM	5MM	5MM	100 MIC DR
B2190/B2192	5MM	NI	5MM	5MM	5MM	100 MIC DR
R7003	NI	10K	NI	NI	NI	MIC CTRL VERSION
R7203	10K	2.2K	10K	10K	10K	MIC CTRL VERSION

VERSION	J/C	UJ/UJ	US/UN/UGX	E/B/E/NEV	A / UP	REMARK
CN705	GGF1205C1-04	GGF1205C1-04	GGF1205C1-04	GGF1205C1-04	GGF1205C1-04	VIDEO CONN
R7153	NI	2.2K	NI	NI	NI	ECHO

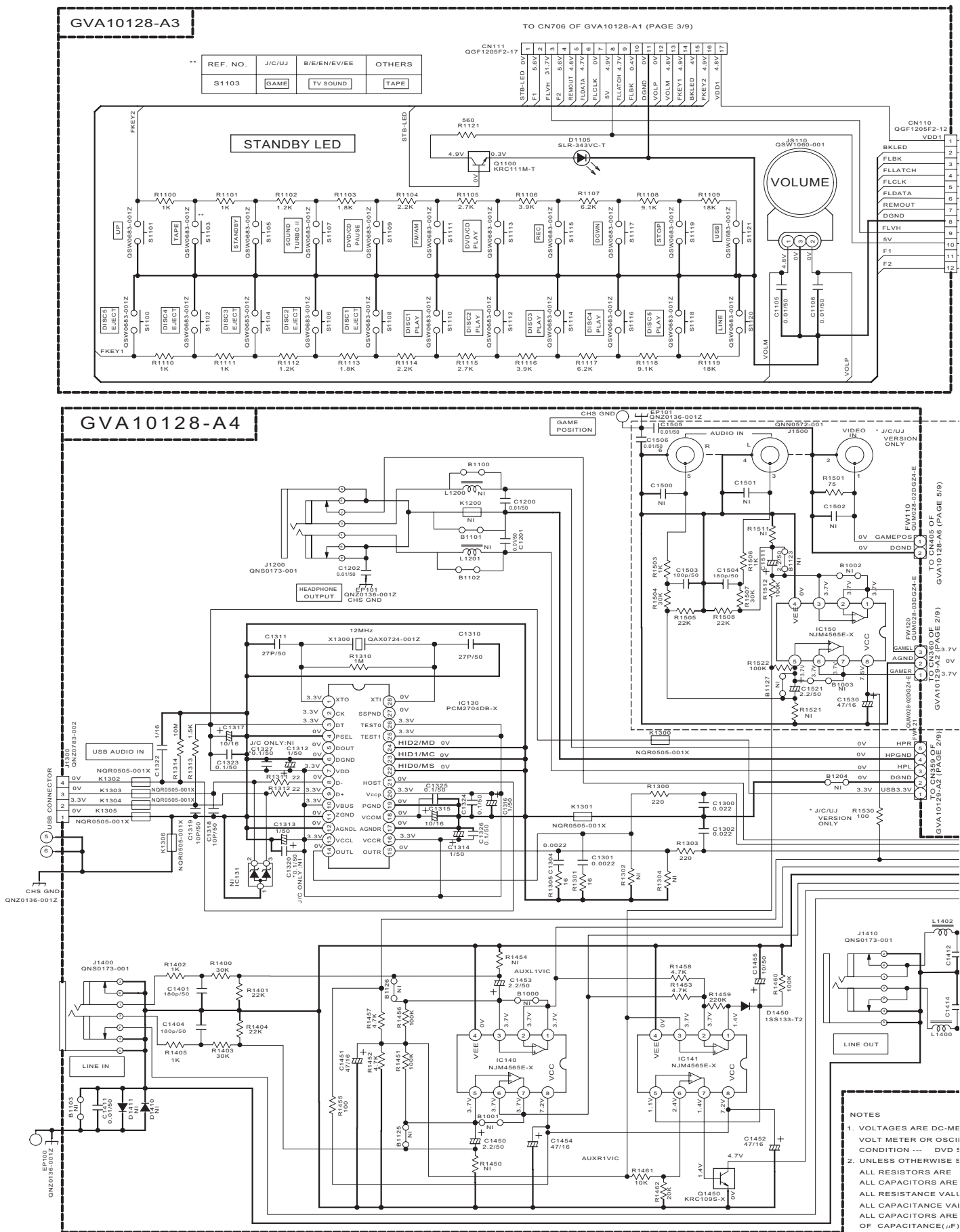
VERSION	PARTS	R7005
J/C	10K	
A	10K	
UP	10K	
US/UN	10K	
UJ	10K	
E/B/E/NEV	NI	

TO CN40



TO CN111 OF GVA10128-A3 (PAGE 4/9)

■ Front panel and Connection section

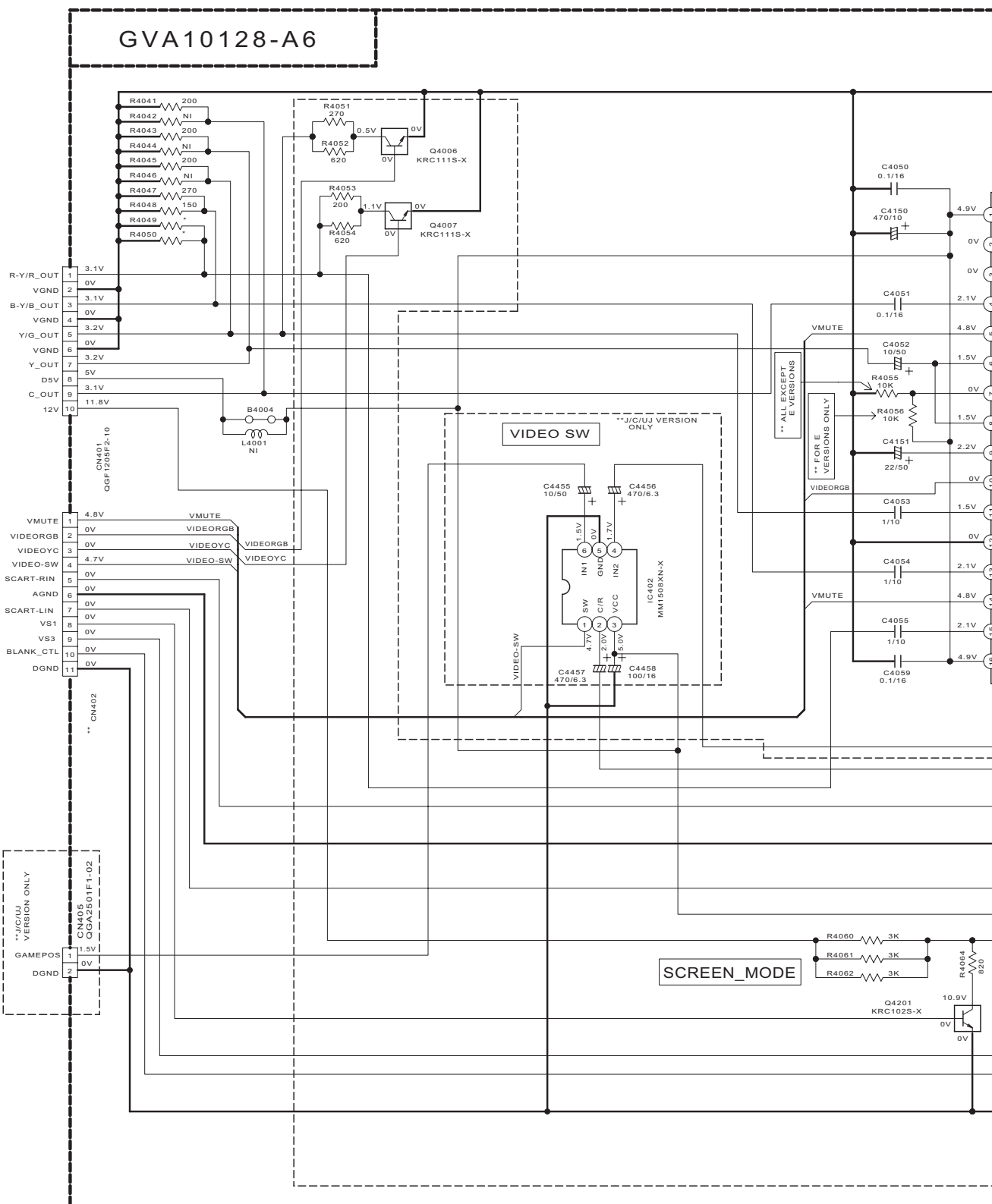


■ Video driver and Output section

FROM CN355 OF
GVA10129-A2
(PAGE 2/9)

FROM CN705 OF
GVA10128-A1
(PAGE 3/9)

FROM FW110 OF
GVA10128-A4
(PAGE 4/9)



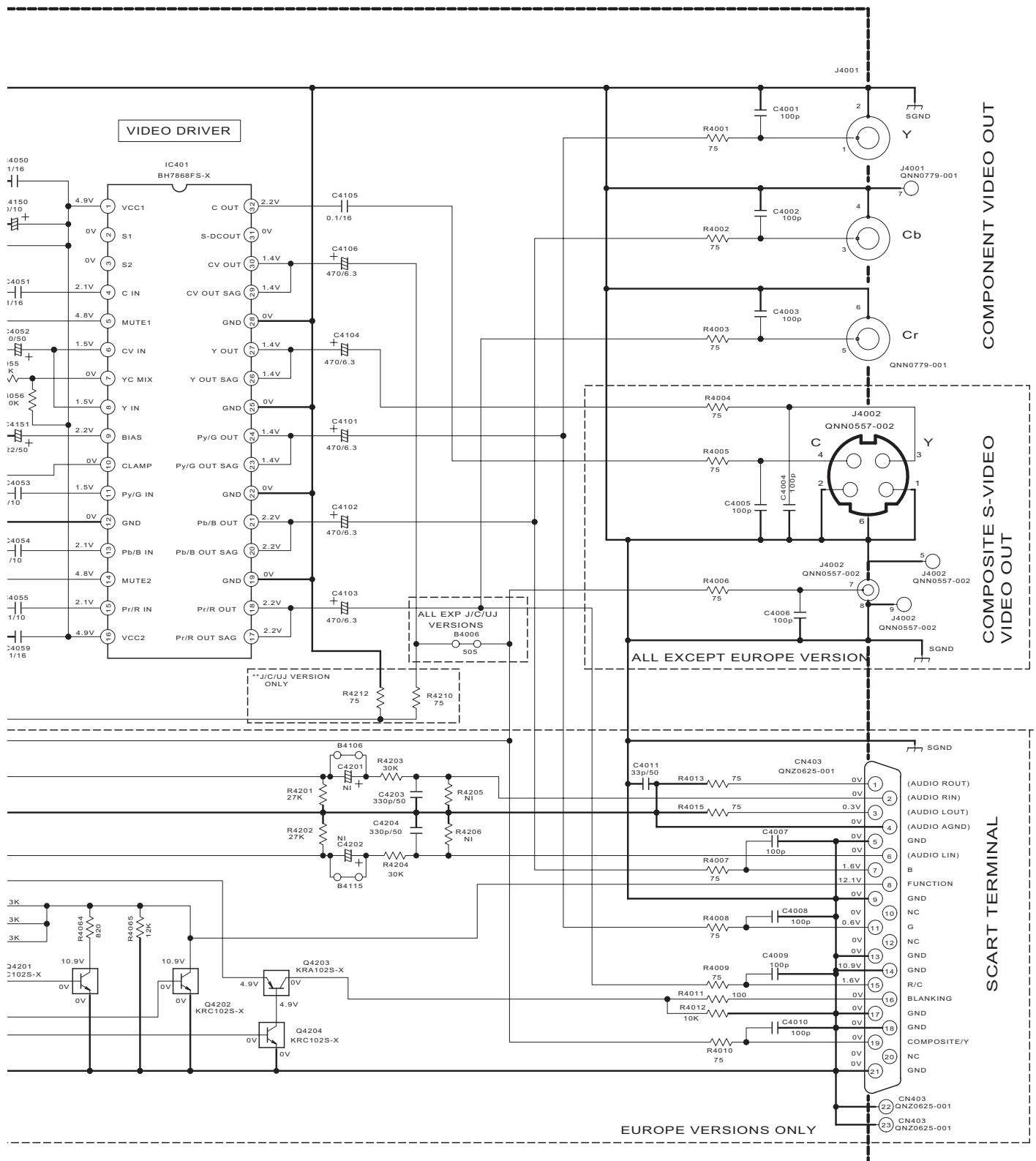
DIGITAL TRANSISTOR

REFERENCE NO.	PART NO.		
	B/E/EE/EN/IEV	J/C/UJ	OTHERS
CN402	QGF1205F2-11	QGF1205F2-04	QGF1205F2-04
R4050	NRSA63J-511X	NRSA63J-151X	NRSA63J-151X
R4049	NRSA63J-511X	NRSA63J-271X	NRSA63J-271X

	$\frac{R1}{10K}$	KRC111S-X
	$\frac{R1}{10K} \quad \frac{R2}{10K}$	KRC102S-X
	$\frac{R1}{10K} \quad \frac{R2}{10K}$	KRA102S-X

NOTES

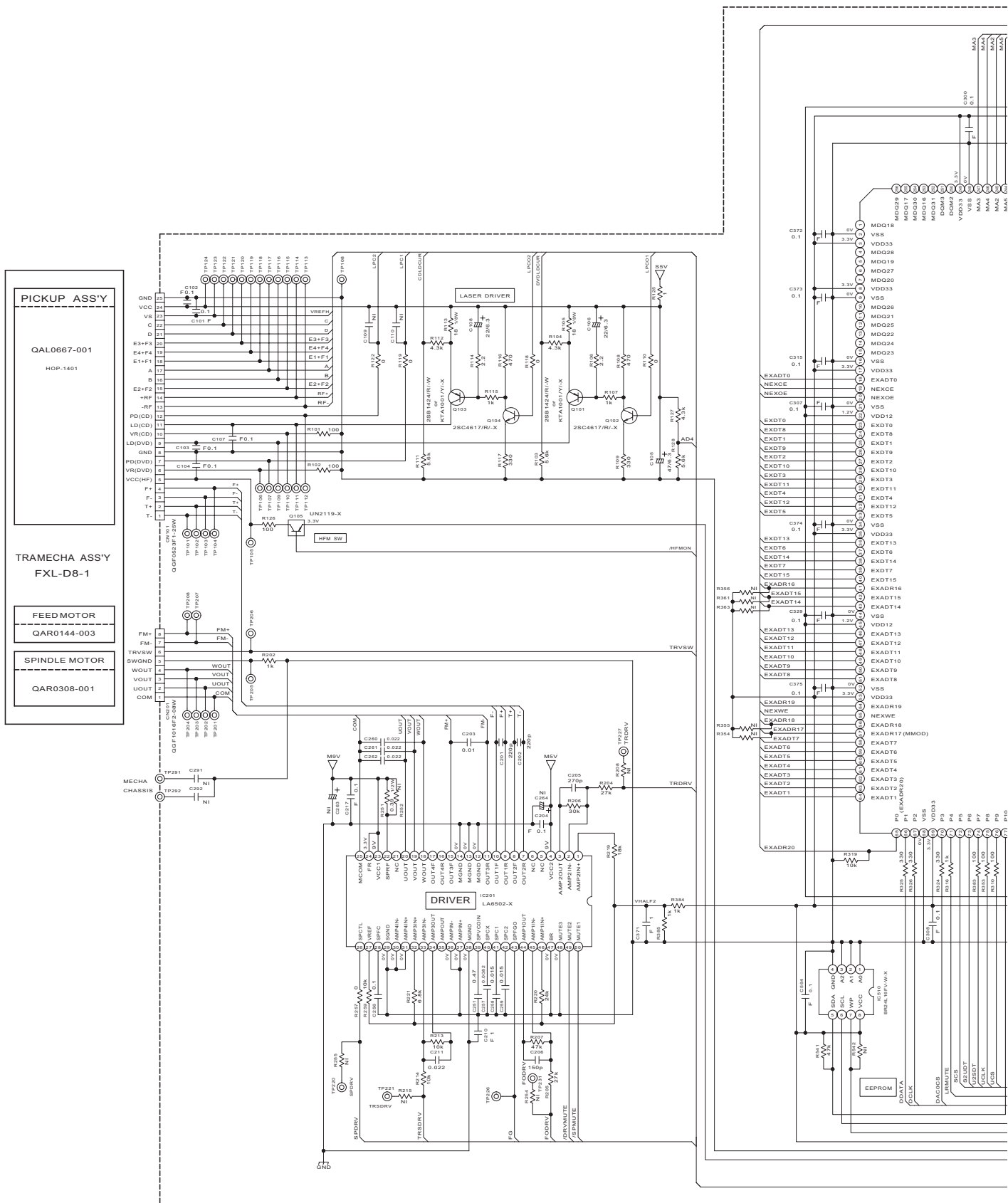
- VOLTAGES ARE DC-MEASURED WITH A DIGI VOLT METER OR OSCILLOSCOPE WITHOUT CONDITION --- DVD STOP MODE
- UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/4W $\pm 5\%$ CARBON FIL OR 0.063W $\pm 5\%$ THICK FILM CHIP RESISTOR
ALL CAPACITORS ARE CERAMIC CAPACITOR MYLAR CAPACITOR.



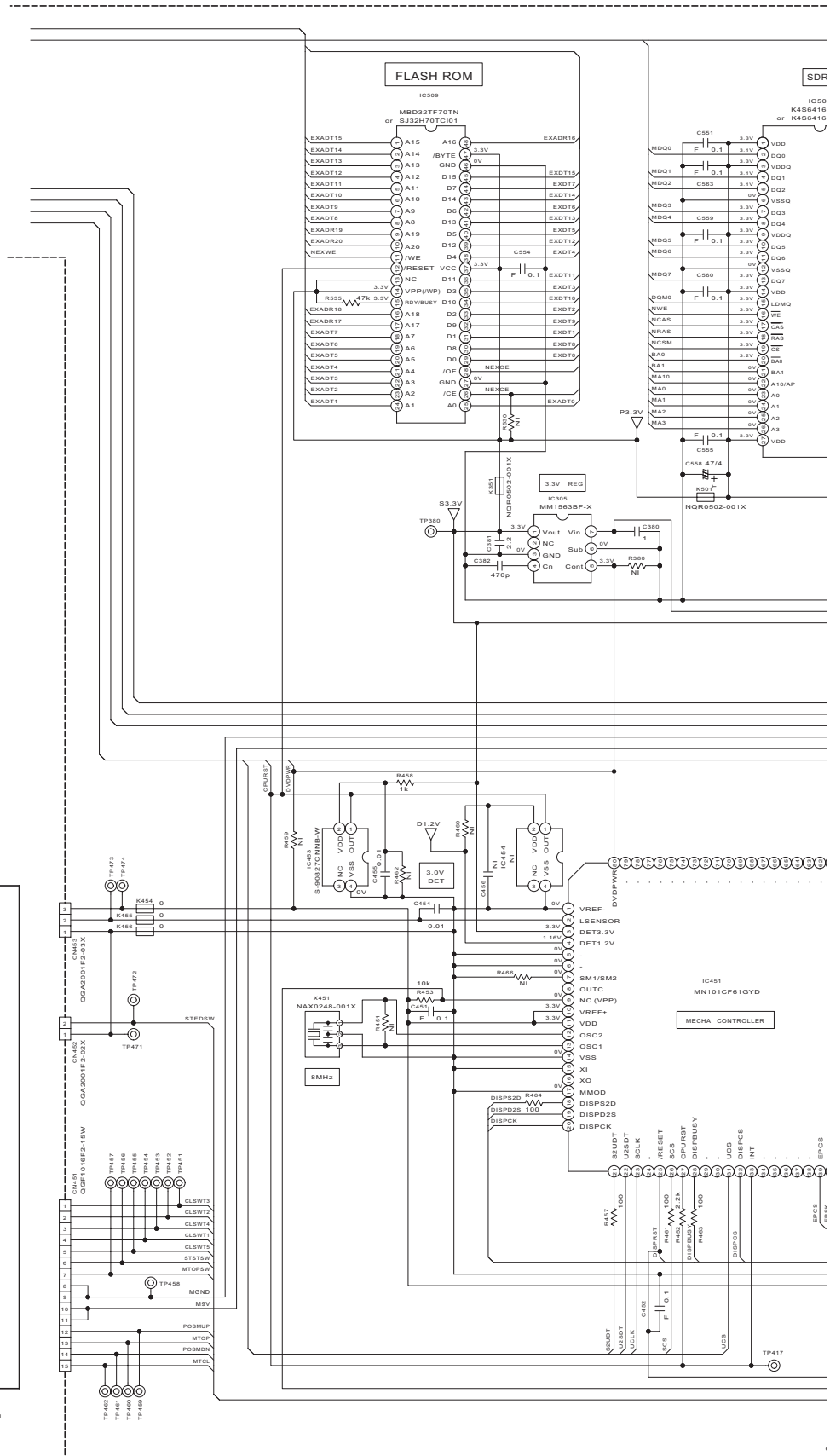
ASURED WITH A DIGITAL
 LOSCOPE WITHOUT INPUT SIGNAL.
 3P MODE
 PECIFIED.
 4W $\pm 5\%$ CARBON FILM RESISTOR
 FILM CHIP RESISTOR
 CERAMIC CAPACITOR OR

ALL RESISTANCE VALUES ARE IN OHM (Ω).
 ALL CAPACITANCE VALUES ARE IN μF (P=pF).
 ALL E.CAPACITORS ARE SHOWN IN THE FORM
 OF CAPACITANCE(μF)/RATED VOLTAGE (V).
 ALL INDUCTANCE VALUES ARE IN μH (m=mH).
 ALL FERRITE BEADS ARE QQR0621-001Z
 3. NI = NO INSERT

■ DVD section (1/2)



■ DVD section (2/2)



LOADER ASS'Y
CH5-BASE-1M

See
LVS20135-001A

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- A DVD disc in the Tray 1, and STOP mode.

2. UNLESS OTHERWISE SPECIFIED.

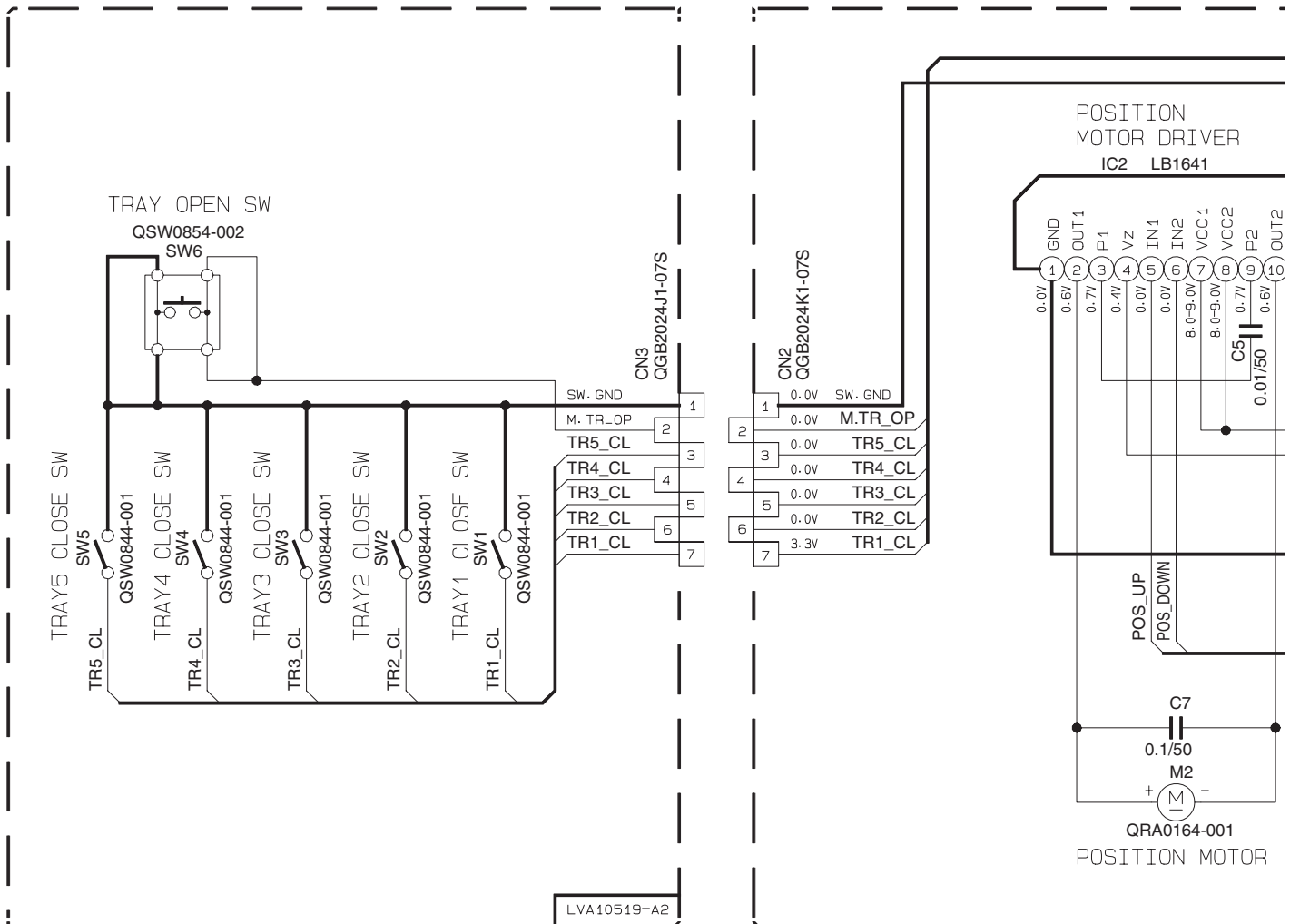
- ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
- ALL CAPACITORS ARE 50V, 25V, 16V, 10V OR 6.3V CERAMIC CAPACITOR
- ALL RESISTANCE VALUES ARE IN OHM(Ω).
- ALL CAPACITANCE VALUES ARE IN pF(pf).
- ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μ F)/RATED VOLTAGE (V).
- ALL INDUCTANCE VALUES ARE IN mH(m=H).

3. NI STANDS FOR NOT INSERTED PARTS.

4.DIGITAL TRANSISTOR 10k

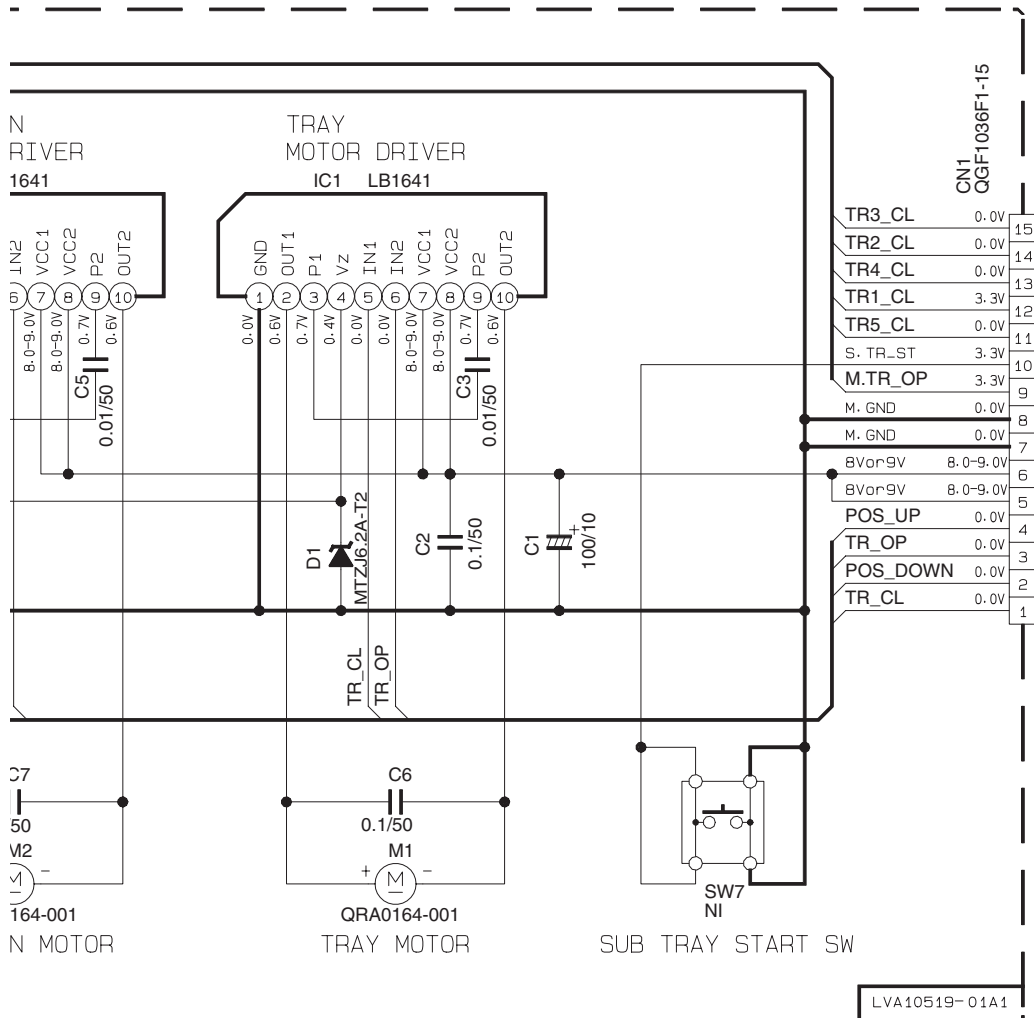
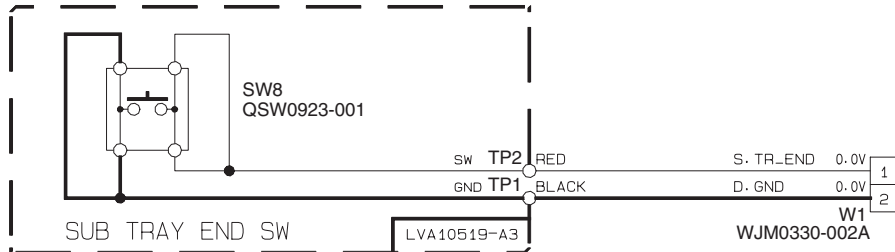
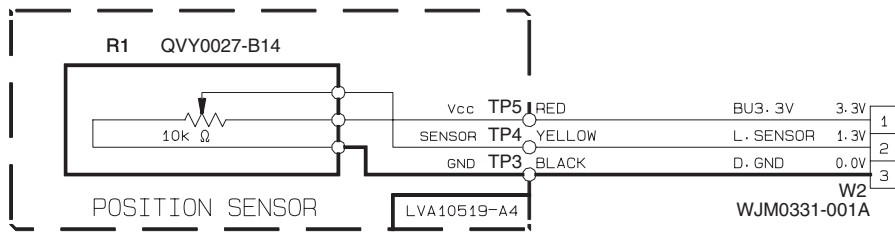


Loader section



NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER. CONDITION:DISC1 STOP
- UNLESS OTHERWISE SPECIFIED. ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μ F)/RATED VOLTAGE(V).
- NI STANDS FOR NOT INSERTED PARTS.



TO POWER AND MECHA CONTROL MCOM

■ **Amp board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



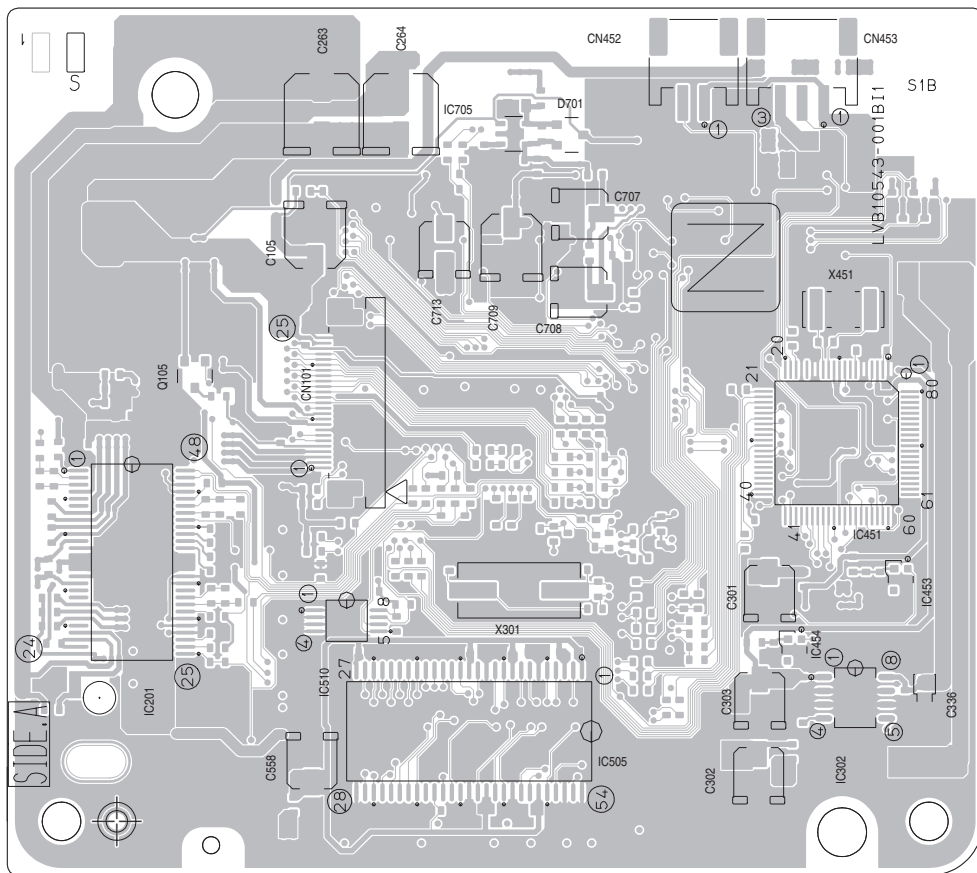
(Amplifier 2 board)

(Amplifier 2 board)

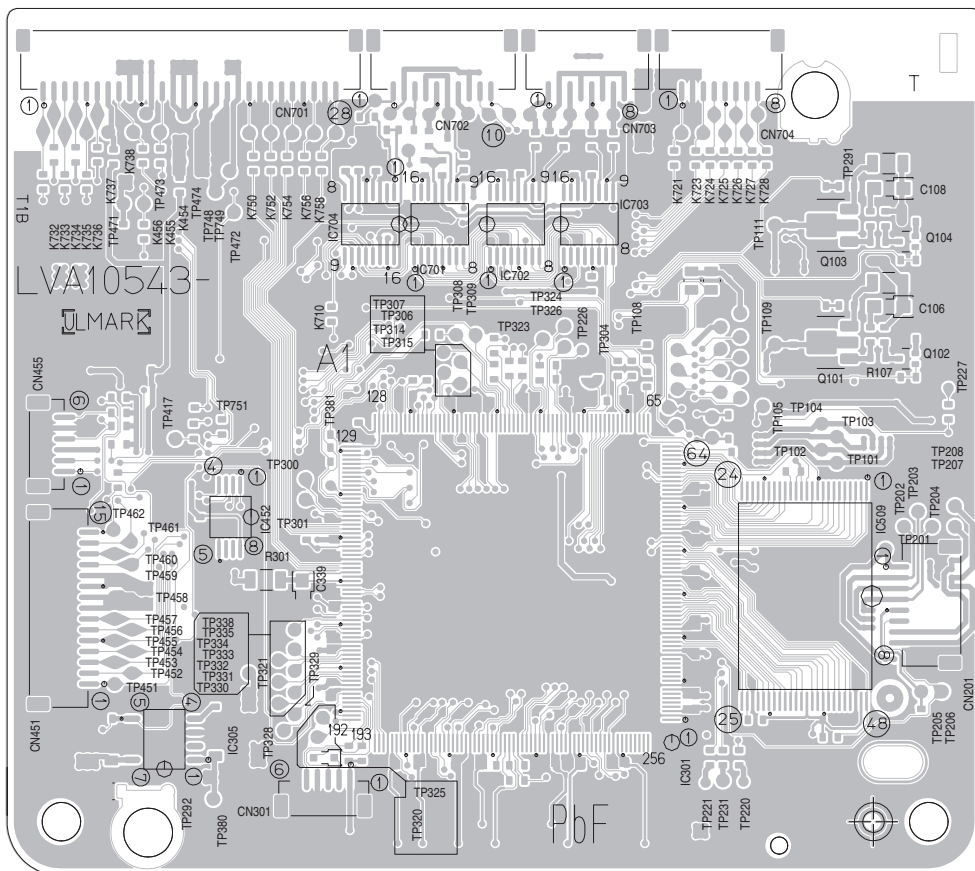
■ **DVD board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

forward side

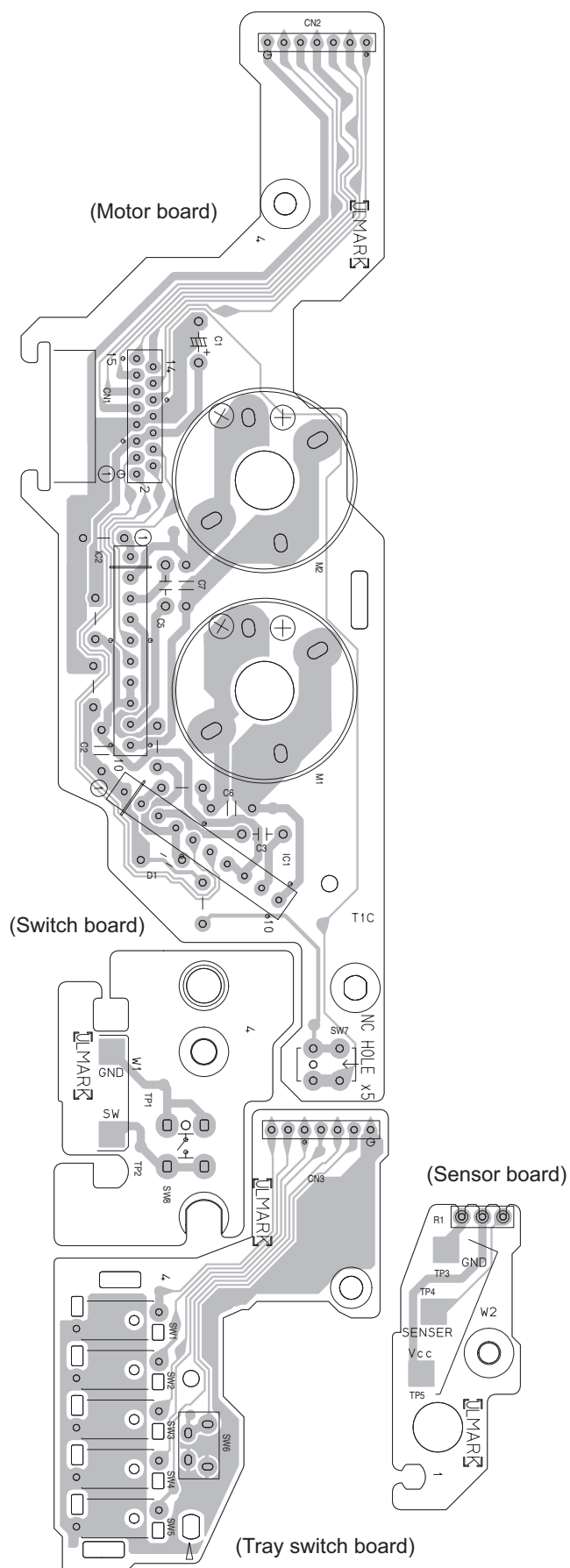


reverse side



■ Loader board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)





Victor Company of Japan, Limited

Audio/Video Systems Category 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

(No.MB505SCH)



Printed in Japan
VPT

PARTS LIST

UX-G70J,UX-G70C,
UX-G70B,UX-G70E,UX-G70EN,UX-G70EV,UX-G70EE

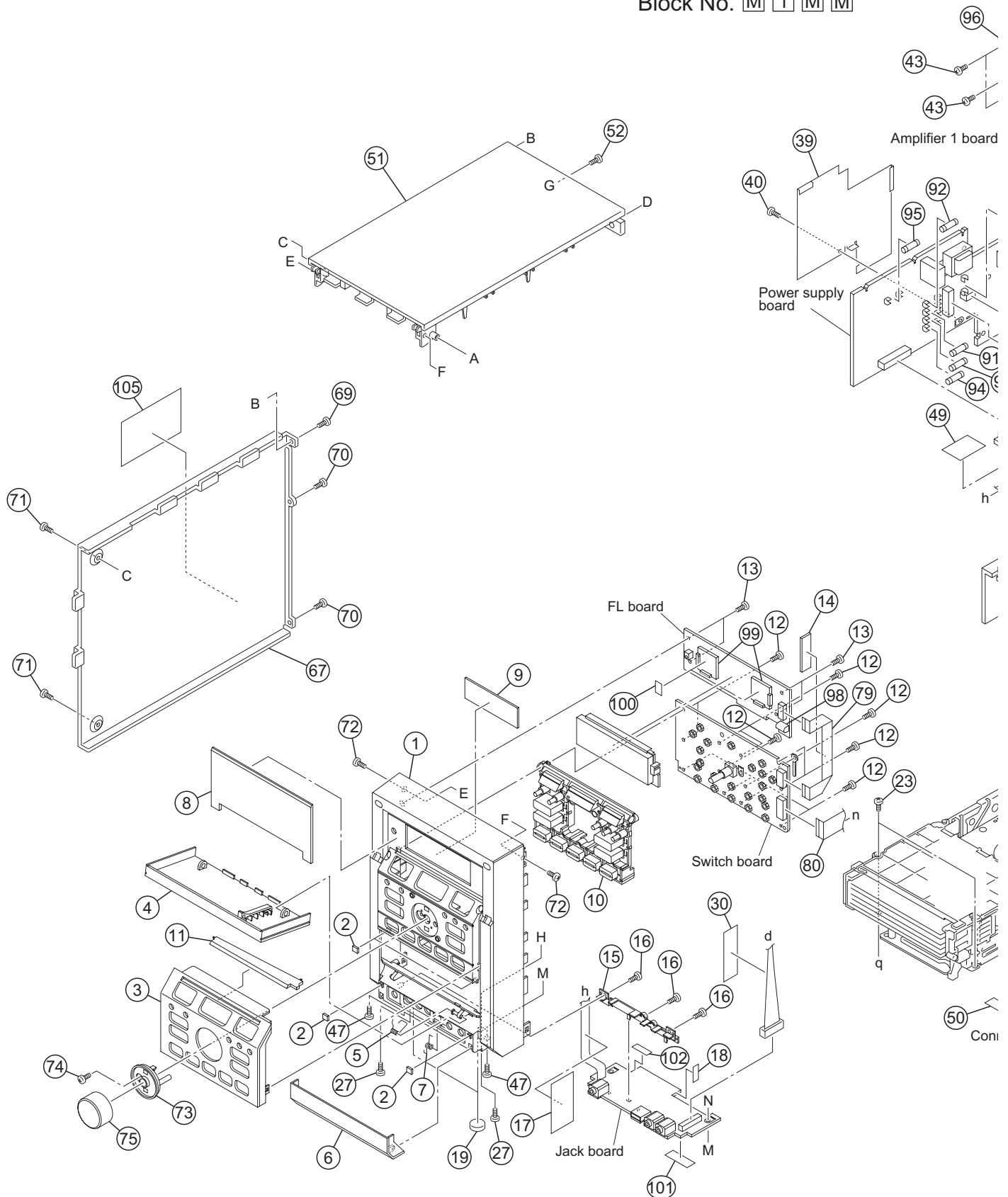
* All printed circuit boards and its assemblies are not available as service parts.

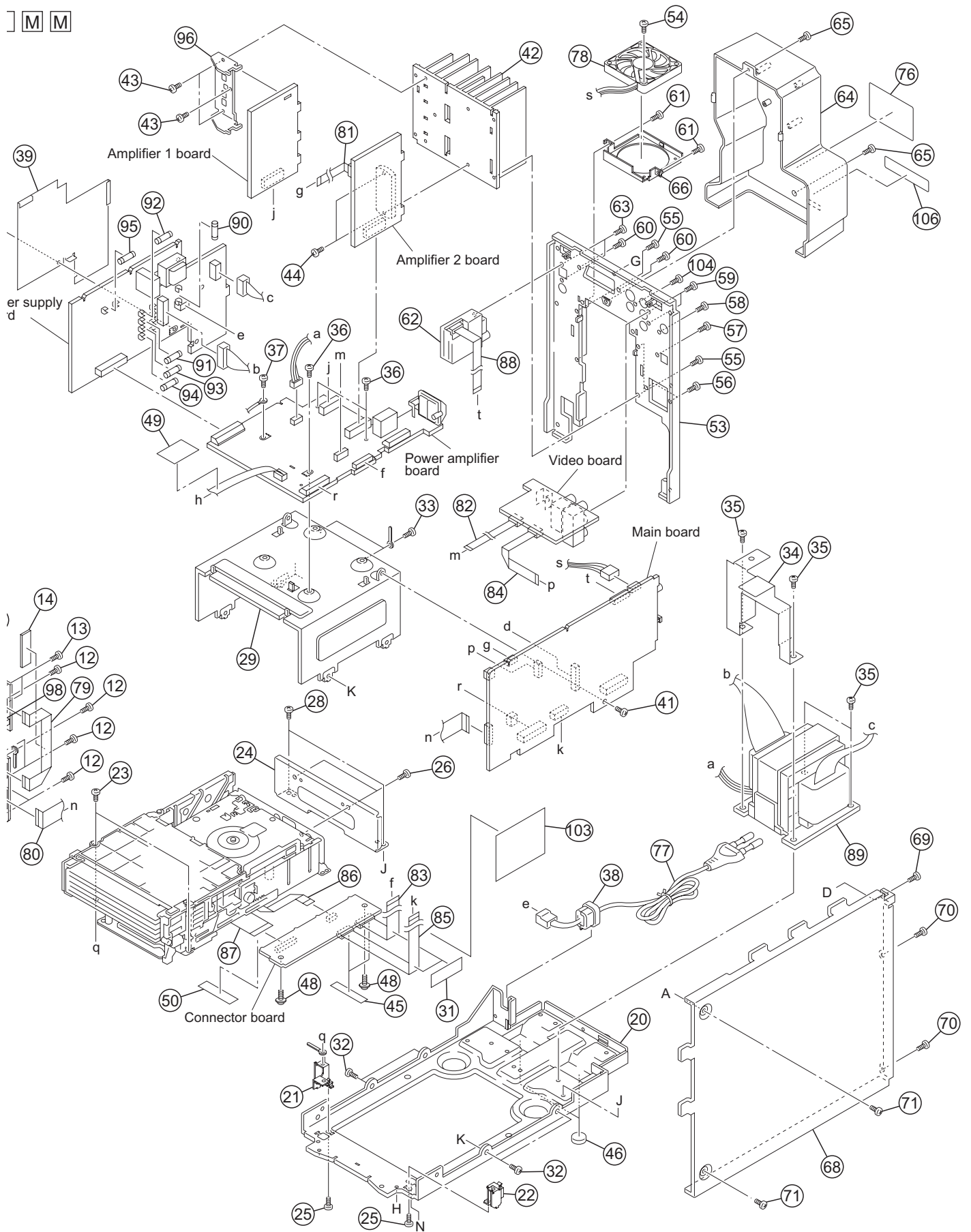
- Contents -

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DVD changer mechanism assembly and parts list (Block No.MK)	3- 8
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Packing materials and accessories parts list (Block No.M3)	3-20

Exploded view of general assembly and parts list

Block No. M 1 M M





General Assembly

Block No. [M][1][M][M]

Symbol No.	Part No.	Part Name	Description	Local
1	GV10331-001A	FRONT PANEL		G70J,G70C
1	GV10331-003A	FRONT PANEL		G70B,G70E,G70EN,G70EV,G70EE
2	GV40704-001A	SPACER	(x4)	
3	GV20441-001A	FRONT COVER		
4	GV20437-001A	DVD DOOR		
5	GV40702-002A	DVD DOOR SPRING		
6	GV30903-001A	JACK COVER		
7	GV40703-001A	J.COVER SPRING		
8	GV30899-002A	FRONT LENS		G70J,G70C
8	GV30899-001A	FRONT LENS		G70B,G70E,G70EN,G70EV,G70EE
9	GV40678-002A	FL SCREEN		
10	GV30900-003A	FUNCT. BTN ASSY		G70J,G70C
10	GV30900-002A	FUNCT. BTN ASSY		G70B,G70E,G70EN,G70EV,G70EE
11	GV30844-001A	ILLUMI. LENS		
12	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x12)	
13	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x4)	
14	GV30349-060A	SPACER		
15	GV30904-001A	HP HOLDER		
16	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x3)	
17	LV30225-0E4A	SPACER		
18	LV30225-011A	SPACER		
19	GV40184-002A	FOOT SPACER	(x2)	
20	GV10288-003A	BOTTOM CHAS		
21	GV40701-001A	MECHA HOLDER		
22	GV40715-001A	MECHA HDR R		
23	QYSBST3006ZA	TAP SCREW	M3 x 6mm(x2)	
24	GV30447-001A	CD BRACKET(R)		
25	QYSBST3006ZA	TAP SCREW	M3 x 6mm(x2)	
26	QYSBST3004ZA	TAP SCREW	M3 x 4mm(x2)	
27	QYSBSG3010EA	TAP SCREW	M3 x 10mm(x2)	
28	QYSBST4006ZA	TAP SCREW	M4 x 6mm(x2)	
29	GV10334-001A	MAIN CHASSIS		
30	LV30225-0E4A	SPACER		
31	LV30225-0P8A	SPACER		G70B,G70E,G70EN,G70EV,G70EE
32	QYSSST3006ZA	TAP SCREW	M3 x 6mm(x4)	
33	QYSBST3006ZA	TAP SCREW	M3 x 6mm(x2)	
34	GV30826-201A	HEAT BARRIER		
35	QYSBST4006ZA	TAP SCREW	M4 x 6mm(x4)	
36	QYSBST3006ZA	TAP SCREW	M3 x 6mm(x3)	
37	QYSBSGG3008EA	TAP SCREW	M3 x 8mm	
38	QZW0033-001	STRAIN RELIEF		
39	GV30914-001A	PROTECT SHEET		
40	QYSBST3006ZA	TAP SCREW	M3 x 6mm	
41	QYSBST3006ZA	TAP SCREW	M3 x 6mm	
42	GV30818-002A	HEAT SINK		
43	QYSBSG3016EA	TAP SCREW	M3 x 16mm(x3)	
44	QYSBSG3016EA	TAP SCREW	M3 x 16mm(x2)	
45	LV30225-011A	SPACER	(x2)	
46	GV40184-002A	FOOT SPACER	(x2)	
47	QYSBST3006ZA	TAP SCREW	M3 x 6mm(x2)	
48	GV40035-002A	SCREW	(x2)	
49	GV30349-067A	SPACER		
50	GV30349-005A	SPACER		
51	GV10333-001A	TOP COVER		G70J,G70C
51	GV10333-002A	TOP COVER		G70B,G70E,G70EN,G70EV,G70EE
52	QYSBSG3008EA	TAP SCREW	M3 x 8mm	
53	GV20386-009A	REAR PANEL		G70J,G70C
53	GV20386-008A	REAR PANEL		G70B,G70E,G70EN,G70EV
53	GV20386-016A	REAR PANEL		G70EE
54	QYSBSG3014ZA	TAP SCREW	M3 x 14mm	
55	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x4)	
56	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
57	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
58	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
59	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
60	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	G70B,G70E,G70EN,G70EV,G70EE
61	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
62	QAU0412-001	TUNER		G70J,G70C
62	QAU0413-001	TUNER		G70B,G70E,G70EN,G70EV,G70EE
63	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
64	GV10287-002A	REAR COVER		G70J,G70C
64	GV10287-001A	REAR COVER		G70B,G70E,G70EN,G70EV,G70EE
65	QYSBSG3008EA	TAP SCREW	M3 x 8mm(x2)	
66	GV30905-001A	FAN BRACKET		

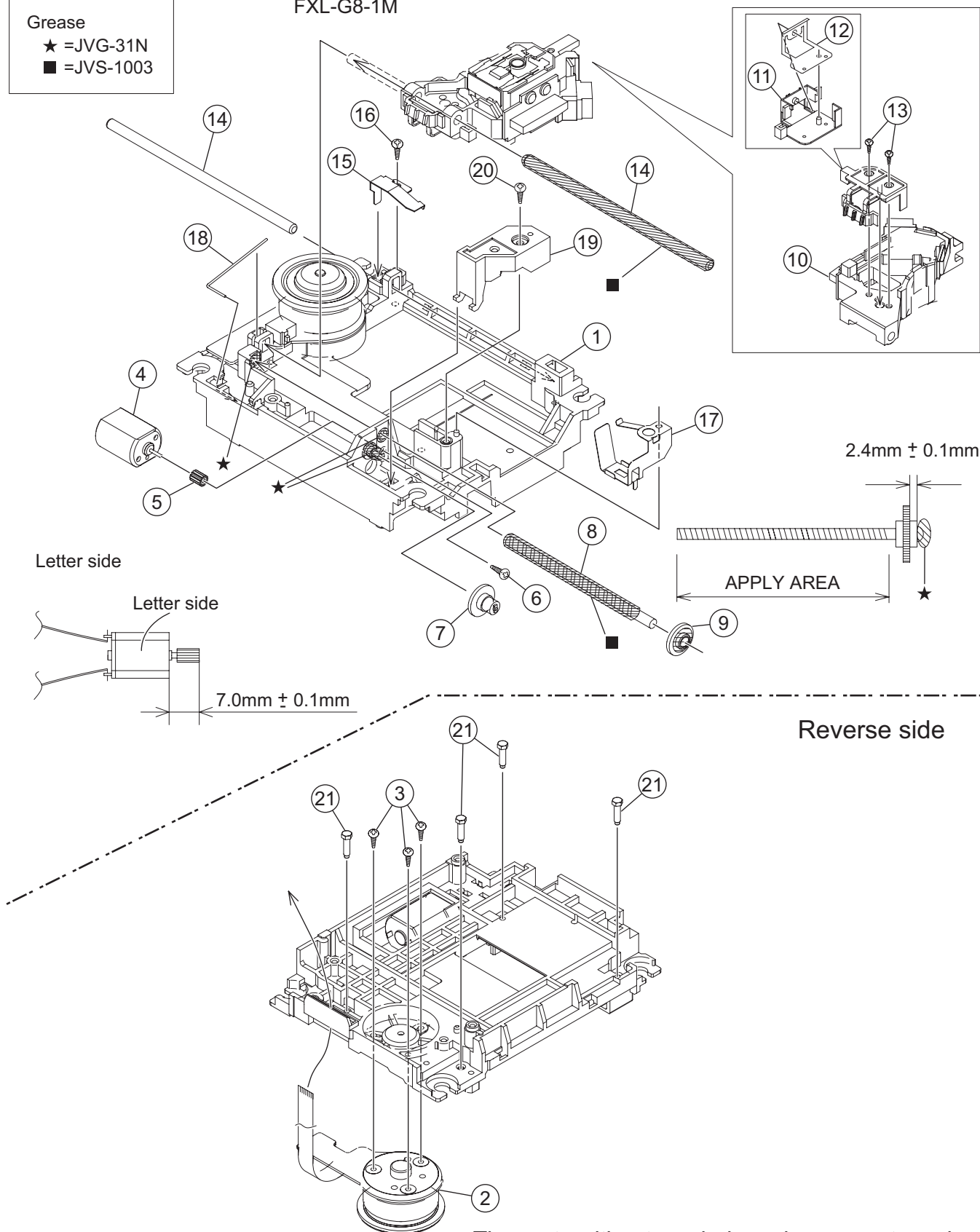
△	Symbol No.	Part No.	Part Name	Description	Local
	67	GV20387-001A	SIDE PANEL (L)		
	68	GV20388-001A	SIDE PANEL (R)		
	69	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	70	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x4)	
	71	QYSDSG3008NA	TAP SCREW	M3 x 8mm(x4)	
	72	QYSBSG3010ZA	TAP SCREW	M3 x 10mm(x2)	
	73	GV30902-001A	VOLUME RING		
	74	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
	75	GV30901-001A	VOLUME KNOB		
	76	GV30917-003A	RATING LABEL		G70J, G70C
	76	GV30917-008A	RATING LABEL		G70B, G70E, G70EN, G70EV
	76	GV30917-009A	RATING LABEL		G70EE
△	77	QMPD330-200-JD	POWER CORD(EU)	2m BLACK	G70J, G70C
△	77	QMPN150-200-JC	POWER CORD(EU)	2m BLACK	G70B
△	77	QMPK200-200-JD	POWER CORD(EU)	2m BLACK	G70E
△	77	QMPK200-200-JD	POWER CORD(EU)	2m BLACK	G70EN, G70EV, G70EE
	78	QAR0407-001	FAN		
	79	QUQU12-1213AJ-E	FFC WIRE	12pin 13cm	
	80	QUQU12-1712AJ-E	FFC WIRE	17pin 12cm	
	81	QUQU12-0519AJ-E	FFC WIRE	5pin 19cm	
	82	QUQU12-1017BJ-E	FFC WIRE	10pin 17cm	
	83	QUQU12-1712AJ-E	FFC WIRE	17pin 12cm	
	84	QUQU12-0415BJ-E	FFC WIRE	4pin 15cm	G70J, G70C
	84	QUQU12-1115BJ-E	FFC WIRE	11pin 15cm	G70B, G70E, G70EN, G70EV, G70EE
	85	QUQU12-1312BJ-E	FFC WIRE	13pin 12cm	
	86	QUR110-1008AJ-E	FFC WIRE		
	87	QUR110-2806AJ-E	FFC WIRE		
	88	QUQU12-1118AJ-E	FFC WIRE	11pin 18cm	G70J, G70C
	88	QUQU12-1518AJ-E	FFC WIRE	15pin 18cm	G70B, G70E, G70EN, G70EV, G70EE
△	89	QQT0510-001	POWER TRANSF	T9001	G70J, G70C
△	89	QQT0510-002	POWER TRANSF	T9001	G70B, G70E, G70EN, G70EV, G70EE
△	90	QMF51U1-5R0-J8	FUSE	F9008 5A AC125V	G70J, G70C
△	90	QMF51W2-2R5-J8	FUSE	F9008 2.5A AC250V	G70B, G70E, G70EN, G70EV, G70EE
△	91	QMF51U1-6R3-J8	FUSE	F9001 6.3A AC125V	G70J, G70C
△	91	QMF51W2-6R3-J8	FUSE	F9001 6.3A AC250V	G70B, G70E, G70EN, G70EV, G70EE
△	92	QMF51U1-6R3-J8	FUSE	F9002 6.3A AC125V	G70J, G70C
△	92	QMF51W2-6R3-J8	FUSE	F9002 6.3A AC250V	G70B, G70E, G70EN, G70EV, G70EE
△	93	QMF51U1-3R15-J8	FUSE	F9003 3.15A AC125V	G70J, G70C
△	93	QMF51W2-3R15-J8	FUSE	F9003 3.15A AC250V	G70B, G70E, G70EN, G70EV, G70EE
△	94	QMF51U1-3R15-J8	FUSE	F9004 3.15A AC125V	G70J, G70C
△	94	QMF51W2-3R15-J8	FUSE	F9004 3.15A AC250V	G70B, G70E, G70EN, G70EV, G70EE
△	95	QMF51U1-2R5-J8	FUSE	F9006 2.5A AC125V	G70J, G70C
△	95	QMF51W2-3R15-J8	FUSE	F9006 3.15A AC250V	G70B, G70E, G70EN, G70EV, G70EE
	96	GV30817-001A	IC BRACKET		
	98	GV40557-001A	LED HOLDER		
	99	LV43659-001A	FL HOLDER	(x2)	
	100	GV30349-048A	SPACER	(x2)	
	101	LV30225-011A	SPACER		G70B, G70E, G70EN, G70EV, G70EE
	102	LV30225-011A	SPACER		G70J, G70C
	103	GV30349-071A	SPACER		G70J, G70C
	104	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	G70J, G70C
	105	LV43835-001A	EMC LABEL		G70J, G70C
	106	GV40526-002A	CAUTION LABEL		G70J, G70C

DVD mechanism assembly and parts list

Grease
 ★ =JVG-31N
 ■ =JVS-1003

FXL-G8-1M

Block No. M J M M



The parts without symbol number are not service.

DVD mechanism

Block No. [M][J][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
1		LV10985-002A	C.TM CHASSIS		
2		QAR0334-002	S.MOTOR		
3		QYSPSPU1740ZA	SCREW	M1.7 x 4mm(x3)	
4		QAR0144-003	MOTOR		
5		VKS5557-001	F.M. GEAR		
6		QYSPSPT2025ZA	SCREW	M2 x 2.5mm	
7		LV35461-002A	MIDDLE GEAR		
8		LV44040-001A	SCREW SHAFT		
9		LV35462-001A	SCREW SHAFT GEA		
10		QAL0667-002	DVD PICK		
11		LV21869-001A	RACK ARM		
12		LV35463-001A	RACK ARM SPRING		
13		QYSPSFU1740ZA	TAP SCREW	M1.7 x 4mm(x2)	
14		LV44041-001A	GUIDE SHAFT	(x2)	
15		LV35464-001A	G.SHAFT ADJ.SP		
16		QYSDSF2005ZA	TAP SCREW	M2 x 5mm	
17		LV35465-002A	THRUST SPRING		
18		LV44042-001A	ROD SPRING		
19		LV35467-001A	FEED BRACKET		
20		QYSDSF2005ZA	TAP SCREW	M2 x 5mm	
21		LV44046-001A	ADJUST SCREW	(x4)	

DVD changer mechanism assembly and parts list

FMU-SM1-11M

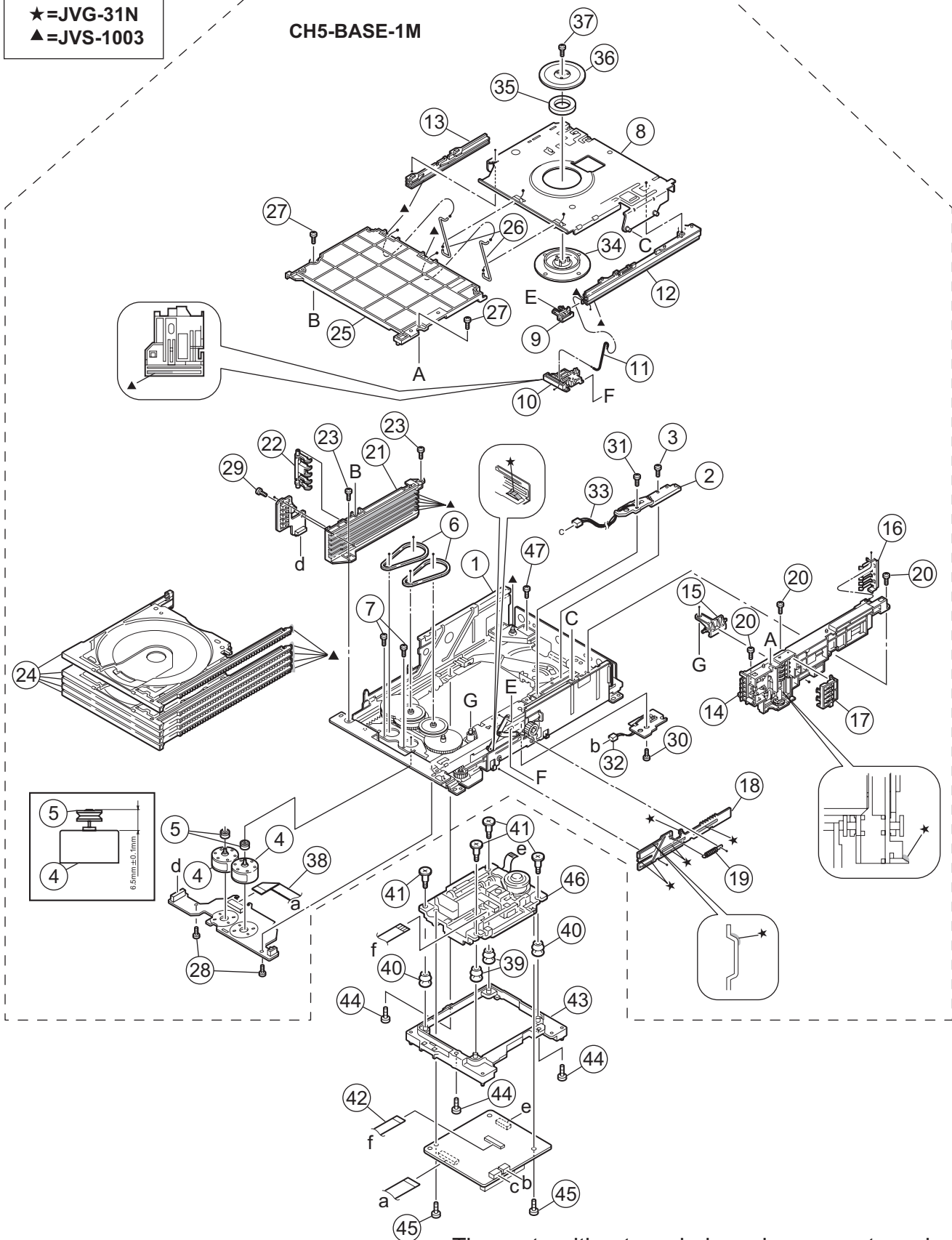
Block No. M K M M

Grease

★=JVG-31N

▲=JVS-1003

CH5-BASE-1M



The parts without symbol number are not service.

DVD changer mechanism

Block No. [M][K][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
1		LV10913-006A	LOADER ASSY		
2		QVY0027-B14	S V RESISTOR		
3		QYSDST2004ZA	TAP SCREW	M2 x 4mm	
4		QAR0164-001	MOTOR	(x2)	
5		LV42340-001A	MOTOR PULLEY	(x2)	
6		LV41431-002A	BELT	(x2)	
7		QYSPSPU1725NA	SCREW	M1.7 x 2.5mm(x2)	
8		LV33965-005A	LIFTER ASSY		
9		LV33963-001A	HOOK		
10		LV33964-002A	HOOK STOPPER		
11		LV43285-001A	ROD (L)		
12		LV21408-002A	RAIL(R)		
13		LV21409-002A	RAIL(L)		
14		LV21520-004A	SIDE(R) ASSY		
15		LV33974-002A	SELECT LEVER		
16		LV33977-002A	CLICK SPRING		
17		LV33975-001A	GEAR COVER		
18		LV33976-002A	ELEVATOR CAM		
19		LV43287-001A	ELEVATOR SPRING		
20		QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x3)	
21		LV10749-003A	SIDE(L)		
22		LV33980-002A	OPEN DET.LEVER		
23		QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x2)	
24		LV10746-007A	TRAY ASSY	(x5)	
25		LV10750-003A	TOP COVER		
26		LV43289-003A	ROD	(x2)	
27		QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
28		QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x2)	
29		QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
30		QYSDST2605ZA	TAP SCREW	M2.6 x 5mm	
31		QYSDST2004ZA	TAP SCREW	M2 x 4mm	
32		WJM0330-002A-E	E-SI C WIRE C-F		
33		WJM0331-001A-E	E-SI C WIRE C-F		
34		LV32417-001A	CLAMPER		
35		LV42930-003A	P.C.MAGNET		
36		LV33992-001A	DVD YOKE		
37		LV41741-003A	SPECIAL SCREW		
38		QUQ110-1508BJ-E	FFC WIRE	15pin 8cm	
39		LV44043-002A	INSULATOR	(x2)	
40		LV44043-003A	INSULATOR	(x2)	
41		LV44045-001A	SPECIAL SCREW	(x4)	
42		LV44092-004A	PICK FFC		
43		LV10986-001A	TRAMECHA HOLDER		
44		QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x3)	
45		LV44209-001A	WASHER SCREW	(x2)	
46		-----	DVD TRAMECHA		
47		QYSDST2605ZA	TAP SCREW	M2.6 x 5mm	

Electrical parts list

Main board

Block No. [0][1]					△ Symbol No.	Part No.	Part Name	Description	Local
△ Symbol No.	Part No.	Part Name	Description	Local	D8001	MTZJ5.6C-T2	Z DIODE		G70B,G70E, G70EN,G70EV, G70EE
IC300	PQ033ES3MX-T	IC			△ D9001	1N5402M-20	SI DIODE		
△ IC301	STK412-400	IC		G70J,G70C	△ D9002	1N5402M-20	SI DIODE		
△ IC301	STK412-490-E	IC		G70B,G70E, G70EN,G70EV, G70EE	△ D9003	1N5402M-20	SI DIODE		
△ IC811	KIA7812API	IC			△ D9004	1N5402M-20	SI DIODE		
△ IC821	KIA278R09PI	IC			△ D9011	1N5402M-20	SI DIODE		
△ IC831	KIA278R05PI	IC			△ D9012	1N5402M-20	SI DIODE		
IC901	KIA7805API	IC			△ D9013	1N5402M-20	SI DIODE		
Q3011	KTC3200/GL-T	TRANSISTOR			△ D9014	1N5402M-20	SI DIODE		
Q3041	KRA109M-T	DIGI TRANSISTOR			△ D9021	1N5402M-20	SI DIODE		
Q3042	KTC2876-T	TRANSISTOR			△ D9022	1N5402M-20	SI DIODE		
Q3043	KTC2876-T	TRANSISTOR			△ D9023	1N5402M-20	SI DIODE		
Q3051	KTA1023/OY-T	TRANSISTOR			△ D9024	1N5402M-20	SI DIODE		
Q3052	KTC1027/OY-T	TRANSISTOR			D9025	2A02-M	DIODE		
Q3053	KTC3200/GL-T	TRANSISTOR			△ D9040	1N4003S-T5	SI DIODE		
Q3054	KTA1268/GL-T	TRANSISTOR			D9043	1SS133-T2	SI DIODE		
Q3061	KTC3200/GL-T	TRANSISTOR			D9044	1N4003S-T5	SI DIODE		
Q3062	KTA1268/GL-T	TRANSISTOR			D9045	1N4003S-T5	SI DIODE		
Q3063	KTC3199/GL-T	TRANSISTOR			D9046	1N4003S-T5	SI DIODE		
Q3064	KTA1268/GL-T	TRANSISTOR			D9047	1N4003S-T5	SI DIODE		
Q3111	KTC3200/GL-T	TRANSISTOR			D9048	1SS133-T2	SI DIODE		
Q3300	KRC102M-T	DIGI TRANSISTOR			C3011	QCSB1HK-4R7Y	C CAPACITOR	4.7pF 50V K	
Q3301	KRA110M-T	TRANSISTOR		G70J,G70C	C3012	QTE1E28-476Z	E CAPACITOR	47uF 25V	
△ Q3541	KTC2026/YI	TRANSISTOR			C3013	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J	
Q3551	KRA109M-T	DIGI TRANSISTOR			C3014	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J	
Q3552	KTC2876-T	TRANSISTOR			C3015	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
Q3553	KTC2876-T	TRANSISTOR			C3016	QCSB1HJ-470Y	C CAPACITOR	47pF 50V J	
Q3554	KTC2876-T	TRANSISTOR			C3031	QTE1V06-106Z	E CAPACITOR	10uF 35V	
Q3555	KTC2876-T	TRANSISTOR			C3032	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
Q3561	KTC3199/GL-T	TRANSISTOR			C3041	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q5000	KTC3199/GL-T	TRANSISTOR			C3051	QETN1JM-476Z	E CAPACITOR	47uF 63V M	
△ Q8001	KTA1046/YI	TRANSISTOR			C3052	QETN1JM-476Z	E CAPACITOR	47uF 63V M	
Q8002	KTC3199/GL-T	TRANSISTOR			C3053	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
Q8003	KTC3199/GL-T	TRANSISTOR			C3054	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q9044	KRC111M-T	TRANSISTOR			C3061	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D3001	MTZJ36B-T2	Z DIODE			C3062	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
D3002	MTZJ15B-T2	Z DIODE			C3063	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D3003	MTZJ15B-T2	Z DIODE			C3111	QCSB1HK-4R7Y	C CAPACITOR	4.7pF 50V K	
D3004	MTZJ36B-T2	Z DIODE			C3112	QTE1E28-476Z	E CAPACITOR	47uF 25V	
D3011	1SS133-T2	SI DIODE			C3113	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J	
D3051	1SS133-T2	SI DIODE			C3114	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J	
D3061	1SS133-T2	SI DIODE			C3115	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
D3111	1SS133-T2	SI DIODE			C3116	QCSB1HJ-470Y	C CAPACITOR	47pF 50V J	
D3212	MTZJ3.9B-T2	Z DIODE			C3131	QTE1V06-106Z	E CAPACITOR	10uF 35V	
D3500	MTZJ11C-T2	Z DIODE			C3132	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
D3510	1SS133-T2	SI DIODE			C3210	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
D3511	1SS133-T2	SI DIODE			C3212	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
D3512	1SS133-T2	SI DIODE			C3500	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
D3514	1SS133-T2	SI DIODE			C3501	QEZ0784-478	E CAPACITOR	4700uF	
D3515	MTZJ13B-T2	Z DIODE			C3502	QEZ0784-478	E CAPACITOR	4700uF	
D3516	1SS133-T2	SI DIODE			C3503	QETM1CM-478	E CAPACITOR	4700uF 16V M	
D3517	MTZJ5.6A-T2	Z DIODE			C3504	QETM1VM-478	E CAPACITOR	4700uF 35V M	G70J,G70C G70B,G70E, G70EN,G70EV, G70EE
D3521	1SS133-T2	SI DIODE			C3504	QETM1EM-478	E CAPACITOR	4700uF 25V M	
D3522	1SS133-T2	SI DIODE			C3505	QETM1VM-338	E CAPACITOR	3300uF 35V M	
D3523	2A02-M	DIODE			C3506	QETM1VM-338	E CAPACITOR	3300uF 35V M	
D3524	1N4003S-T5	SI DIODE			C3521	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D3541	MTZJ5.6B-T2	Z DIODE			C3522	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D3542	1N4003S-T5	SI DIODE			C3541	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D3543	1N4003S-T5	SI DIODE			C3542	QETN1JM-107Z	E CAPACITOR	100uF 63V M	
D3544	1N4003S-T5	SI DIODE			C3543	QETN2AM-476Z	E CAPACITOR	47uF 100V M	
D3545	MTZJ33B-T2	Z DIODE			C3544	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
D3551	1SS133-T2	SI DIODE			C3545	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
D3552	1SS133-T2	SI DIODE			C3546	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
D3553	1SS133-T2	SI DIODE			C3551	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D3561	1SS133-T2	SI DIODE			C3561	QCBB1HK-332Y	C CAPACITOR	3300pF 50V K	G70B,G70E, G70EN,G70EV, G70EE
D5000	MTZJ4.3B-T2	Z DIODE			C3562	QCBB1HK-473Y	C CAPACITOR	0.047uF 50V K	G70B,G70E, G70EN,G70EV, G70EE
D8001	MTZJ5.1C-T2	Z DIODE		G70J,G70C					

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C3563	QCB1HK-473Y	C CAPACITOR	0.047uF 50V K	G70B,G70E, G70EN,G70EV, G70EE	R3114	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
C3564	QCB1HK-332Y	C CAPACITOR	3300pF 50V K	G70B,G70E, G70EN,G70EV, G70EE	R3115	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
C3565	QCB1HK-473Y	C CAPACITOR	0.047uF 50V K	G70B,G70E, G70EN,G70EV, G70EE	R3116	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C3566	QCB1HK-473Y	C CAPACITOR	0.047uF 50V K	G70B,G70E, G70EN,G70EV, G70EE	R3117	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C3567	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K		R3118	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
C3568	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K		R3119	QRJ146J-102X	UNF C RESISTOR	1kΩ 1/4W J	
C5000	QEK1HM-106Z	E CAPACITOR	10uF 50V M		R3120	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
C5001	QEK0JM-107Z	E CAPACITOR	100uF 6.3V M		R3131	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
C8001	QCB1HK-221Y	C CAPACITOR	220pF 50V K		R3132	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J	
C8002	QCB1HK-103Y	C CAPACITOR	0.01uF 50V K		R3133	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
C8101	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R3134	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
C8102	QETN1EM-107Z	E CAPACITOR	100uF 25V M		R3200	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	G70J,G70C
C8201	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R3300	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
C8202	QETN1EM-107Z	E CAPACITOR	100uF 25V M		R3501	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
C8203	QCB1HK-103Y	C CAPACITOR	0.01uF 50V K		R3502	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
C8301	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R3503	QRT01DJ-R33X	MF RESISTOR	0.33Ω 1W J	G70J,G70C
C8302	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R3504	QRT01DJ-R33X	MF RESISTOR	0.33Ω 1W J	G70J,G70C
C9002	QFZ0228-104Z	M CAPACITOR	0.1uF		R3541	QRE141J-9R1Y	C RESISTOR	9.1Ω 1/4W J	
C9004	QFZ0228-104Z	M CAPACITOR	0.1uF		R3542	QRE141J-9R1Y	C RESISTOR	9.1Ω 1/4W J	
C9005	QFZ0228-104Z	M CAPACITOR	0.1uF		△ R3543	QRJ146J-4R7X	UNF C RESISTOR	4.7Ω 1/4W J	
C9012	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		R3544	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
C9014	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		R3545	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
C9015	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		R3551	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
C9022	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		R3552	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
C9024	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		R3553	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
C9025	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		R3554	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	
C9041	QETN1AM-227Z	E CAPACITOR	220uF 10V M		R3555	QRJ146J-681X	UNF C RESISTOR	680Ω 1/4W J	
C9043	QEZ0797-108Z	E CAPACITOR	1000uF		R3556	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
C9044	QCZ9105-47Z	C CAPACITOR	4700pF 250V M		R3557	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3002	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J		R3558	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3003	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J		R3559	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3004	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J		R3560	QRJ146J-681X	UNF C RESISTOR	680Ω 1/4W J	
R3005	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J		R3561	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J	
△ R3006	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J		R3562	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R3007	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J		R3563	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R3011	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		R3565	QRJ146J-4R7X	UNF C RESISTOR	4.7Ω 1/4W J	G70B,G70E, G70EN,G70EV, G70EE
R3012	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		R3566	QRJ146J-4R7X	UNF C RESISTOR	4.7Ω 1/4W J	G70B,G70E, G70EN,G70EV, G70EE
R3013	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J		R5000	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3014	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J		R8001	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3015	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J		R8002	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3016	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J		R8003	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3017	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J		R8004	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3018	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J		R8005	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3019	QRJ146J-102X	UNF C RESISTOR	1kΩ 1/4W J		R8006	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R3020	QRZ0224-R22	EMIT RESISTOR	0.22Ω		R8007	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3031	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J		△ R9050	QRZ9037-335	COMP RESISTOR	3.3MΩ 1/2W K	G70J,G70C
R3032	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J		L3011	QQLZ035-R39	COIL	0.39uH	
R3033	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J		L3111	QQLZ035-R39	COIL	0.39uH	
R3034	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J		△ T9000	QQT0253-012	POWER TRANSF		G70J,G70C G70B,G70E, G70EN,G70EV, G70EE
R3041	QRE141J-221Y	C RESISTOR	220Ω 1/4W J		△ T9000	QQT0253-013	POWER TRANSF		
R3042	QRE141J-203Y	C RESISTOR	20kΩ 1/4W J		CN301	QGF1205C2-05	CONNECTOR	FFC/FPC (1-5)	
R3043	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN302	QGB2510K1-11	CONNECTOR	B-B (1-11)	
R3044	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN351	QGB2510K2-14	CONNECTOR	B-B (1-14)	
R3051	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN353	QGB2510J1-11	CONNECTOR	B-B (1-11)	
R3052	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN354	QGB2510J1-09	CONNECTOR	B-B (1-9)	
R3053	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN355	QGF1205C2-10	CONNECTOR	FFC/FPC (1-10)	
R3054	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN356	QGF1205F2-17	CONNECTOR	FFC/FPC (1-17)	
R3055	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J		CN357	QGB2510K2-12	CONNECTOR	B-B (1-12)	
R3056	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J		CN358	QGB2510K2-11	CONNECTOR	B-B (1-11)	
△ R3057	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J		CN359	QGD2504C1-05Z	CONNECTOR	(1-5)	
△ R3058	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J		CN360	QGD2504C1-03Z	CONNECTOR	(1-3)	G70J,G70C
R3061	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN361	QGA2501C1-03	CONNECTOR	W-B (1-3)	
R3062	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J		CN501	QGF1205F2-17	CONNECTOR	FFC/FPC (1-17)	
R3063	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J		CN502	QGF1205F2-13	CONNECTOR	FFC/FPC (1-13)	
R3064	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN503	QGF1036F2-10	CONNECTOR	FFC/FPC (1-10)	
R3065	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J		CN504	QGF1036F2-28	CONNECTOR	FFC/FPC (1-28)	
R3066	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J		CN801	QGB2510K1-09	CONNECTOR	B-B (1-9)	
R3111	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		CN901	QGB2510J1-14	CONNECTOR	B-B (1-14)	
R3112	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		CN903	QGA3901C1-08	CONNECTOR	W-B (1-8)	
R3113	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J		CN904	QGA7901C1-03	CONNECTOR	W-B (1-3)	
					△ CN906	QGA7901C1-02	CONNECTOR	W-B (1-2)	

△ Symbol No.	Part No.	Part Name	Description	Local
EP351	QNZ0136-001Z	EARTH PLATE		G70J,G70C
EP901	QNZ0136-001Z	EARTH PLATE		
FT903	QNG0003-001Z	FUSE CLIP		
FT904	QNG0003-001Z	FUSE CLIP		
FT905	QNG0003-001Z	FUSE CLIP		
FT906	QNG0003-001Z	FUSE CLIP		
FT907	QNG0003-001Z	FUSE CLIP		
FT908	QNG0003-001Z	FUSE CLIP		
FT909	QNG0003-001Z	FUSE CLIP		
FT910	QNG0003-001Z	FUSE CLIP		
FT911	QNG0003-001Z	FUSE CLIP		
FT912	QNG0003-001Z	FUSE CLIP		
FT913	QNG0003-001Z	FUSE CLIP		
FT914	QNG0003-001Z	FUSE CLIP		
J3501	QNB0303-001	SPK JACK		
K5001	QQR0621-001Z	COIL		
K5002	QQR0621-001Z	COIL		
K5003	QQR0621-001Z	COIL		
K5004	QQR0621-001Z	COIL		
△ LF901	QQR1321-001	LINE FILTER		G70B,G70E, G70EN,G70EV, G70EE
PP352	QZW0112-001	WIRE CLAMP		
PP353	QZW0112-001	WIRE CLAMP		
PP354	QZW0112-001	WIRE CLAMP		
PP355	QZW0112-001	WIRE CLAMP		
△ RY351	QSK0127-001	RELAY		G70B,G70E, G70EN,G70EV, G70EE
△ RY901	QSK0129-002	RELAY		

Primary board

Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local
IC100	PT6305	FL DRIVER		G70B,G70E, G70EN,G70EV, G70EE
IC101	GP1UM271XKVF	IR DETECT UNIT		
IC130	PCM2704DB-X	IC		
IC131	STZC6.8N-X	USB ESD DIODE		
IC140	NJM4565E-X	IC		
IC141	NJM4565E-X	IC		
IC150	NJM4565E-X	IC		
IC200	LC75345M-X	IC		
IC250	GP1FAV30TK0F	OPT TRANSMITTER		
IC401	BH7868FS-X	IC		
IC402	MM1508XN-X	IC		G70J,G70C
IC701	MN101C49GFD1	MASK ROM		
IC702	BR24L08F-W-X	IC(DIGITAL)		
IC703	SN74AHCT08NS-X	IC		
Q1020	KRC111M-T	TRANSISTOR		
Q1100	KRC111M-T	TRANSISTOR		
Q1410	KTC2875-X	CHIP TR.		
Q1411	KTC2875-X	CHIP TR.		
Q1412	KTA1504/YG/-X	TRANSISTOR		
Q1450	KRC109S-X	TRANSISTOR		
Q2200	KTC3203/OY/-T	TRANSISTOR		G70J,G70C
Q2250	KTC3875/YG/-X	TRANSISTOR		
Q2260	KTC3875/YG/-X	TRANSISTOR		
Q2300	KTC2875-X	CHIP TR.		
Q2301	KTC3875/YG/-X	TRANSISTOR		
Q2302	KRA109S-X	D.TRANSISTOR		
Q2600	KRA111S-X	D. TRANSISTOR		
Q2601	KTC3875/YG/-X	TRANSISTOR		
Q2610	KTC3875/YG/-X	TRANSISTOR		
Q4006	KRC111S-X	TRANSISTOR		G70B,G70E, G70EN,G70EV, G70EE
Q4007	KRC111S-X	TRANSISTOR		
Q4201	KRC102S-X	DIGI TRANSISTOR		

△ Symbol No.	Part No.	Part Name	Description	Local
Q4202	KRC102S-X	DIGI TRANSISTOR		G70B,G70E, G70EN,G70EV, G70EE
Q4203	KRA102S-X	DIGI TRANSISTOR		
Q4204	KRC102S-X	DIGI TRANSISTOR		
Q7301	KRC111S-X	TRANSISTOR		
Q7400	KTA1267/G/-T	TRAN.		
Q7401	KTC3875/YG/-X	TRANSISTOR		
Q7807	KTA1023/OY/-T	TRANSISTOR		
Q7808	KRC102S-X	DIGI TRANSISTOR		
Q7810	KRA102S-X	DIGI TRANSISTOR		
Q7900	KRC111S-X	TRANSISTOR		
Q7901	KRC111S-X	TRANSISTOR		
Q7999	KRA111S-X	D. TRANSISTOR		
D1020	SELU2E10C-P	LED		
D1105	SLR-343VC-T	LED		
D1450	1SS133-T2	SI DIODE		
D2241	MTZJ5.1C-T2	Z DIODE		
D2250	1SS133-T2	SI DIODE		
D2260	1SS133-T2	SI DIODE		
D2261	1SS133-T2	SI DIODE		
D7300	1SS133-T2	SI DIODE		
D7301	1SS133-T2	SI DIODE		
D7302	1SS133-T2	SI DIODE		
D7601	MTZJ5.1B-T2	Z DIODE		G70B,G70E, G70EN,G70EV, G70EE
C1000	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1001	QKCC1HM-226Z	E CAPACITOR	22uF 50V M	
C1002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1005	QKCC1HM-106Z	E CAPACITOR	10uF 50V M	
C1009	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1105	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1200	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1202	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1300	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1301	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1302	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1304	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1310	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C1311	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C1312	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C1313	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C1314	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C1315	QER61CM-106Z	E CAPACITOR	10uF 16V M	
C1316	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C1317	QER61CM-106Z	E CAPACITOR	10uF 16V M	
C1318	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C1319	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C1320	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	G70B,G70E, G70EN,G70EV, G70EE
C1322	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C1323	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1324	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1325	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1326	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1327	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1401	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C1404	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C1410	QER61HM-226Z	E CAPACITOR	22uF 50V M	
C1411	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	G70B,G70E, G70EN,G70EV, G70EE
C1412	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1414	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1420	NDC31HJ-101X	C CAPACITOR		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C1422	NDC31HJ-101X	C CAPACITOR			C4010	NDC31HJ-101X	C CAPACITOR	100pF 50V J	G70B,G70E, G70EN,G70EV, G70EE
C1430	NDC31HJ-101X	C CAPACITOR			C4011	NDC31HJ-330X	C CAPACITOR	33pF 50V J	G70B,G70E, G70EN,G70EV, G70EE
C1432	NDC31HJ-101X	C CAPACITOR			C4050	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1450	QER61HM-225Z	E CAPACITOR	2.2uF 50V M		C4051	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1451	QER61CM-476Z	E CAPACITOR	47uF 16V M		C4052	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1452	QER61CM-476Z	E CAPACITOR	47uF 16V M		C4053	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C1453	QER61HM-225Z	E CAPACITOR	2.2uF 50V M		C4054	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C1454	QER61CM-476Z	E CAPACITOR	47uF 16V M		C4055	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C1455	QER61HM-106Z	E CAPACITOR	10uF 50V M		C4059	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1503	NDC31HJ-181X	C CAPACITOR	180pF 50V J	G70J,G70C	C4101	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C1504	NDC31HJ-181X	C CAPACITOR	180pF 50V J	G70J,G70C	C4102	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C1505	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	G70J,G70C	C4103	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C1506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	G70J,G70C	C4104	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	G70J,G70C
C1511	QER61HM-225Z	E CAPACITOR	2.2uF 50V M	G70J,G70C	C4105	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	G70J,G70C
C1521	QER61HM-225Z	E CAPACITOR	2.2uF 50V M	G70J,G70C	C4106	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C1530	QER61CM-476Z	E CAPACITOR	47uF 16V M	G70J,G70C	C4150	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C2001	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4151	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C2002	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4203	NDC31HJ-331X	C CAPACITOR	330pF 50V J	G70B,G70E, G70EN,G70EV, G70EE
C2003	QTE1V06-106Z	E CAPACITOR	10uF 35V		C4204	NDC31HJ-331X	C CAPACITOR	330pF 50V J	G70B,G70E, G70EN,G70EV, G70EE
C2004	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4455	QETN1HM-106Z	E CAPACITOR	10uF 50V M	G70J,G70C
C2005	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4456	QETN1HM-106Z	E CAPACITOR	10uF 50V M	G70J,G70C
C2008	QFLC1HJ-152Z	M CAPACITOR	1500pF 50V J		C4457	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	G70J,G70C
C2009	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J		C4458	QETN1CM-107Z	E CAPACITOR	100uF 16V M	G70J,G70C
C2010	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J		C7112	NDC31HJ-200X	C CAPACITOR	20pF 50V J	
C2012	QFVF1HJ-274Z	MF CAPACITOR	0.27uF 50V J		C7113	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C2013	QFLC1HJ-823Z	M CAPACITOR	0.082uF 50V J		C7206	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C2014	QTE1E28-476Z	E CAPACITOR	47uF 25V		C7219	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2018	QFLC1HJ-823Z	M CAPACITOR	0.082uF 50V J		C7220	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C2030	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J		C7222	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C2055	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C7233	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2101	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C7246	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2102	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C7301	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2103	QTE1V06-106Z	E CAPACITOR	10uF 35V		C7302	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2104	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C7303	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2105	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C7304	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C2108	QFLC1HJ-152Z	M CAPACITOR	1500pF 50V J		C7305	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2109	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J		C7400	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2110	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J		C7402	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2112	QFVF1HJ-274Z	MF CAPACITOR	0.27uF 50V J		C7602	QETN1EM-476Z	E CAPACITOR	47uF 25V M	G70B,G70E, G70EN,G70EV, G70EE
C2113	QFLC1HJ-823Z	M CAPACITOR	0.082uF 50V J		C7603	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C2114	QTE1E28-476Z	E CAPACITOR	47uF 25V		C7605	NCB31HK-272X	C CAPACITOR	2700pF 50V K	G70B,G70E, G70EN,G70EV, G70EE
C2118	QFLC1HJ-823Z	M CAPACITOR	0.082uF 50V J		C7606	NCB31HK-272X	C CAPACITOR	2700pF 50V K	G70B,G70E, G70EN,G70EV, G70EE
C2130	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J		C7901	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2155	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R1001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C2200	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R1002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C2201	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J		R1003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C2202	QTE1A28-337Z	E CAPACITOR	330uF 10V		R1004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C2215	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R1005	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C2240	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R1020	QRE141J-820Y	C RESISTOR	82Ω 1/4W J	
C2241	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R1100	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C2250	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R1101	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C2260	QETN1HM-105Z	E CAPACITOR	1uF 50V M		R1102	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
C2261	NCB31AK-154X	C CAPACITOR	0.15uF 10V K		R1103	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
C2300	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R1104	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C2301	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R1105	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
C2302	QETN1HM-226Z	E CAPACITOR	22uF 50V M		R1106	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
C2303	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R1107	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
C2500	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R1108	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
C2600	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J		R1109	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C2601	QTE1V06-106Z	E CAPACITOR	10uF 35V		R1110	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C2610	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J		R1111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C2611	QTE1V06-106Z	E CAPACITOR	10uF 35V		R1112	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
C2620	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R1113	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
C4001	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R1114	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C4002	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R1115	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
C4003	NDC31HJ-101X	C CAPACITOR	100pF 50V J						
C4004	NDC31HJ-101X	C CAPACITOR	100pF 50V J	G70J,G70C					
C4005	NDC31HJ-101X	C CAPACITOR	100pF 50V J	G70J,G70C					
C4006	NDC31HJ-101X	C CAPACITOR	100pF 50V J	G70J,G70C					
C4007	NDC31HJ-101X	C CAPACITOR	100pF 50V J	G70B,G70E, G70EN,G70EV, G70EE					
C4008	NDC31HJ-101X	C CAPACITOR	100pF 50V J	G70B,G70E, G70EN,G70EV, G70EE					
C4009	NDC31HJ-101X	C CAPACITOR	100pF 50V J	G70B,G70E, G70EN,G70EV, G70EE					

△ Symbol No.	Part No.	Part Name	Description	Local
R1116	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R1117	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R1118	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R1119	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1121	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R1300	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1301	NRSA63J-160X	MG RESISTOR	16Ω 1/16W J	
R1303	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1305	NRSA63J-160X	MG RESISTOR	16Ω 1/16W J	
R1310	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R1311	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1312	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1313	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1314	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R1400	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R1401	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1402	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1403	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R1404	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1405	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1412	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1415	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1416	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1451	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1452	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1453	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1455	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R1456	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1457	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1458	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1459	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R1460	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1461	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1462	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R1501	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70J,G70C
R1503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	G70J,G70C
R1504	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	G70J,G70C
R1505	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	G70J,G70C
R1506	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	G70J,G70C
R1507	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	G70J,G70C
R1508	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	G70J,G70C
R1512	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	G70J,G70C
R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	G70J,G70C
R1530	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	G70J,G70C
R2005	QRE141J-432Y	C RESISTOR	4.3kΩ 1/4W J	
R2006	QRE141J-432Y	C RESISTOR	4.3kΩ 1/4W J	
R2008	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J	
R2009	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J	
R2010	QRE141J-752Y	C RESISTOR	7.5kΩ 1/4W J	
R2011	QRE141J-752Y	C RESISTOR	7.5kΩ 1/4W J	
R2012	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J	
R2013	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R2014	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R2018	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R2047	QRE141J-364Y	C RESISTOR	360kΩ 1/4W J	
R2110	QRE141J-752Y	C RESISTOR	7.5kΩ 1/4W J	
R2111	QRE141J-752Y	C RESISTOR	7.5kΩ 1/4W J	
R2112	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J	
R2113	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R2114	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R2118	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R2147	QRE141J-364Y	C RESISTOR	360kΩ 1/4W J	
R2200	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω	
R2201	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R2242	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J	
R2250	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R2251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2260	QRE141J-124Y	C RESISTOR	120kΩ 1/4W J	
R2261	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2262	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R2263	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R2300	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2302	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2303	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2304	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2305	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2500	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R2601	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2602	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2604	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2611	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2612	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2613	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4002	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4003	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4004	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70J,G70C
R4005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70J,G70C
R4006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70J,G70C
R4007	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4008	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4009	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4010	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4011	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4012	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4013	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4015	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4041	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R4043	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R4045	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R4047	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R4048	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R4049	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	G70J,G70C G70B,G70E, G70EN,G70EV, G70EE
R4050	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	G70J,G70C G70B,G70E, G70EN,G70EV, G70EE
R4051	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4052	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4053	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4054	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4055	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	G70J,G70C G70B,G70E, G70EN,G70EV, G70EE
R4056	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4060	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4061	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4062	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4064	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R4065	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R4201	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE	R7196	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R4202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE	R7197	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R4203	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE	R7198	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R4204	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE	R7199	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4210	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70J,G70C	R7203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4212	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	G70J,G70C	R7209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	G70J,G70C
R7004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7209	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE
R7005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7221	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7006	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7223	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7008	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7224	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7009	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	G70J,G70C	R7225	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7029	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7227	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	G70J,G70C
R7030	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7231	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7060	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7232	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7066	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7301	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7081	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7305	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7084	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7404	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7093	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7405	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R7094	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7601	QRE141J-162Y	C RESISTOR	1.6kΩ 1/4W J	G70B,G70E, G70EN,G70EV, G70EE
R7096	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7602	QRE141J-162Y	C RESISTOR	1.6kΩ 1/4W J	G70B,G70E, G70EN,G70EV, G70EE
R7104	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R7605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7105	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R7606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7106	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R7807	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7108	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R7808	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R7900	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R7901	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R7902	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R7121	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R7903	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R7122	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		L7001	QQL244K-100Z	COIL	10uH K	
R7123	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN100	QGF1205F2-12	CONNECTOR	FFC/FPC (1-12)	
R7124	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN110	QGF1205F2-12	CONNECTOR	FFC/FPC (1-12)	
R7125	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN111	QGF1205F2-17	CONNECTOR	FFC/FPC (1-17)	
R7126	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN401	QGF1205F2-10	CONNECTOR	FFC/FPC (1-10)	
R7127	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE	CN402	QGF1205F2-04	CONNECTOR	FFC/FPC (1-4)	G70J,G70C
R7128	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN402	QGF1205F2-11	CONNECTOR	FFC/FPC (1-11)	G70B,G70E, G70EN,G70EV, G70EE
R7129	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN403	QNZ0625-001	RGB CONNECTOR		G70B,G70E, G70EN,G70EV, G70EE
R7130	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN405	QGA2501F1-02	CONNECTOR	W-B (1-2)	G70J,G70C
R7133	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN701	QGB2510J1-11	CONNECTOR	B-B (1-11)	
R7135	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN702	QGB2510J1-12	CONNECTOR	B-B (1-12)	
R7136	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN703	QGF1205C2-05	CONNECTOR	FFC/FPC (1-5)	
R7137	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN704	QGF1205F2-13	CONNECTOR	FFC/FPC (1-13)	
R7138	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN705	QGF1205C2-04	CONNECTOR	FFC/FPC (1-4)	G70J,G70C
R7139	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN705	QGF1205C2-11	CONNECTOR	FFC/FPC (1-11)	G70B,G70E, G70EN,G70EV, G70EE
R7140	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN706	QGF1205C2-17	CONNECTOR	FFC/FPC (1-17)	
R7142	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN708	QGA2501C1-03	CONNECTOR	W-B (1-3)	
R7143	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN709	QGF1210G1-05	CONNECTOR	FFC/FPC (1-5)	
R7144	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		CN712	QGF1205C2-11	CONNECTOR	FFC/FPC (1-11)	G70J,G70C
R7145	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE	CN712	QGF1205C2-15	CONNECTOR	FFC/FPC (1-15)	G70B,G70E, G70EN,G70EV, G70EE
R7146	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CN713	QGA2001C1-14	CONNECTOR	W-B (1-14)	
R7147	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	G70B,G70E, G70EN,G70EV, G70EE	EP100	QNZ0136-001Z	EARTH PLATE		
R7148	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		EP101	QNZ0136-001Z	EARTH PLATE		
R7149	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		FL100	QLF0174-001	FL TUBE		
R7150	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		FW110	QJP019-025100-E	WIRE		G70J,G70C
R7151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		FW120	QUM023-36DGZ4-E	WIRE		G70J,G70C
R7160	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		FW121	QUM025-36DGZ4-E	WIRE		
R7161	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		FW130	QJK043-145430-E	WIRE		
R7165	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		J230	QNN0780-001	PIN JACK		
R7166	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		J1200	QNS0173-002	HEADPHONE JACK		
R7178	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		J1300	QNZ0783-002	USB CONNECTOR		
R7180	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		J1400	QNS0173-002	HEADPHONE JACK		
R7181	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		J1410	QNS0173-002	HEADPHONE JACK		
R7188	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		J1500	QNN0776-001	PIN JACK		G70J,G70C
R7190	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		J4001	QNN0779-001	VIDEO JACK		
R7191	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		J4002	QNN0557-002	PIN JACK		G70J,G70C
R7193	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R7194	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						

△ Symbol No.	Part No.	Part Name	Description	Local
JS110	QSW1060-001	ROTARY SW		
K1300	NQR0505-001X	RES. C.M		
K1301	NQR0505-001X	RES. C.M		
K1302	NQR0505-001X	RES. C.M		
K1303	NQR0505-001X	RES. C.M		
K1304	NQR0505-001X	RES. C.M		
K1305	NQR0505-001X	RES. C.M		
K1306	NQR0505-001X	RES. C.M		
K2501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7001	QQR1277-001Z	COIL		
K7002	QQR1277-001Z	COIL		
S1100	QSW0683-001Z	PUSH SW I.M		
S1101	QSW0683-001Z	PUSH SW I.M		
S1102	QSW0683-001Z	PUSH SW I.M		
S1103	QSW0683-001Z	PUSH SW I.M		
S1104	QSW0683-001Z	PUSH SW I.M		
S1105	QSW0683-001Z	PUSH SW I.M		
S1106	QSW0683-001Z	PUSH SW I.M		
S1107	QSW0683-001Z	PUSH SW I.M		
S1108	QSW0683-001Z	PUSH SW I.M		
S1109	QSW0683-001Z	PUSH SW I.M		
S1110	QSW0683-001Z	PUSH SW I.M		
S1111	QSW0683-001Z	PUSH SW I.M		
S1112	QSW0683-001Z	PUSH SW I.M		
S1113	QSW0683-001Z	PUSH SW I.M		
S1114	QSW0683-001Z	PUSH SW I.M		
S1115	QSW0683-001Z	PUSH SW I.M		
S1116	QSW0683-001Z	PUSH SW I.M		
S1117	QSW0683-001Z	PUSH SW I.M		
S1118	QSW0683-001Z	PUSH SW I.M		
S1119	QSW0683-001Z	PUSH SW I.M		
S1120	QSW0683-001Z	PUSH SW I.M		
S1121	QSW0683-001Z	PUSH SW I.M		
X1300	QAX0724-001Z	CRYSTAL	12.000000MHz	
X7001	QAX0711-002Z	CRYSTAL	8.000000MHz	

DVD servo board

Block No. [0][3]

△ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC		
IC301	MN2DS0009AA	IC		
IC302	MM1701CH-X	IC		
IC305	MM1563BF-X	IC	3.1V Regulator	
IC451	MN101C61GNW	IC		
IC452	BR93L56RFV-W-X	IC		
IC453	S-80827CNNB-G-W	IC		
IC505	K4S641632H-UC75	IC		
IC505	or K4S641632H-TC75	IC(DIGITAL)		
IC505	or HY57V641620ETP7	IC(DIGITAL)		
IC509	SG32M90TFIR3	IC(MICRO C ROM)		
IC510	BR24L16FV-W-X	IC		
IC701	AK4384VT-X	IC		
IC701	or AK4384ET-X	IC		
IC705	MM1615AN-X	IC		
Q101	KTA1001/Y/-X	TRANSISTOR		
Q101	or 2SB1424/R/-W	TRANSISTOR		
Q102	2SC4617/R/-X	TRANSISTOR		
Q103	KTA1001/Y/-X	TRANSISTOR		
Q103	or 2SB1424/R/-W	TRANSISTOR		
Q104	2SC4617/R/-X	TRANSISTOR		
Q105	UN2119-X	TRANSISTOR		
Q105	or KRA116S-X	TRANSISTOR		
C101	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C102	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C103	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C104	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C105	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C106	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C107	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C108	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	

△ Symbol No.	Part No.	Part Name	Description	Local
C201	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C202	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C204	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C205	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C210	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C211	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C217	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C258	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C259	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C260	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C261	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C262	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C263	NEAF1CM-107X	E CAPACITOR	100uF 16V M	
C300	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C301	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C302	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C303	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C304	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C305	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C306	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C307	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C308	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C309	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C310	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C311	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C312	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C313	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C314	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C315	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C316	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C318	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C319	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C324	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C325	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C326	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C328	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C329	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C330	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C332	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C333	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C334	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C335	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C337	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C339	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C349	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C350	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C351	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C352	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C353	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C354	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C356	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C359	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C371	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C372	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C373	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C374	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C375	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C376	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C377	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C378	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C379	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C380	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C381	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C382	NCB31HK-471X	C CAPACITOR	470pF 50V K		R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C383	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
C386	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R341	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
C393	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R342	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D	
C451	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R345	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C452	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R346	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C453	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R347	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
C454	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R348	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C455	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R349	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C551	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R350	NRSA63J-751X	MG RESISTOR	750Ω 1/16W J	
C554	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R351	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
C555	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C556	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C557	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R357	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C558	NEAF0GM-476X	E CAPACITOR	47uF 4V M		R358	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C559	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R362	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C560	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R367	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C563	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C564	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C701	NCB21CK-105X	C CAPACITOR	1uF 16V K		R374	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C702	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R375	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C703	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R376	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C709	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		R377	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C712	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R378	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C713	NEAF1CM-106X	E CAPACITOR	10uF 16V M		R383	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C714	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C722	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R393	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R394	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R452	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R104	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R453	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R105	NRS181J-180X	MG RESISTOR	18Ω 1/8W J		R454	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R455	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R456	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R457	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R109	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R111	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R461	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R112	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R463	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R113	NRS181J-180X	MG RESISTOR	18Ω 1/8W J		R464	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R465	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R115	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R535	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R541	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R701	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R125	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J		R703	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R126	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R704	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R127	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R717	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R128	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R732	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J						
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		CN101	QGF0523F3-25W	CONNECTOR	FFC/FPC (1-25)	
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		CN201	QGF1016F2-08W	CONNECTOR	FFC/FPC (1-8)	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		CN451	QGF1016F2-15W	CONNECTOR	FFC/FPC (1-15)	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN452	QGA2001F6-02X	CONNECTOR	W-B (1-2)	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN453	QGA2001F6-03X	CONNECTOR	W-B (1-3)	
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		CN701	QGF1016F2-28W	CONNECTOR	FFC/FPC (1-28)	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J		CN702	QGF1016F2-10W	CONNECTOR	FFC/FPC (1-10)	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		K351	NQR0502-001X	FERRITE BEADS		
R251	NRS125J-R39X	MG RESISTOR	0.39Ω 1/2W J		K352	NQR0502-001X	FERRITE BEADS		
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K454	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R301	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J		K455	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R303	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		K456	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K501	NQR0502-001X	FERRITE BEADS		
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K710	NQR0022-002X	FERRITE BEADS		
R308	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		K733	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		K734	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R316	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K735	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R319	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K736	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R324	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		K737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R325	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		K738	NQR0022-005X	FERRITE BEADS		
R326	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		K744	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R327	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		K748	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R334	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		K749	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R335	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		K750	NQR0022-002X	FERRITE BEADS		
R336	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		K752	NQR0022-002X	FERRITE BEADS		
R337	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		K754	NQR0022-002X	FERRITE BEADS		
R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K756	NQR0022-002X	FERRITE BEADS		

△ Symbol No.	Part No.	Part Name	Description	Local
K758	NQR0022-002X	FERRITE BEADS		
TH301	NAD0025-103X	N THERMISTOR	10kΩ	
X301	NAX0741-001X	CRYSTAL		
X451	NAX0248-001X	C OSCILLATOR	8.000MHz	

Loading board

Block No. [0][4]

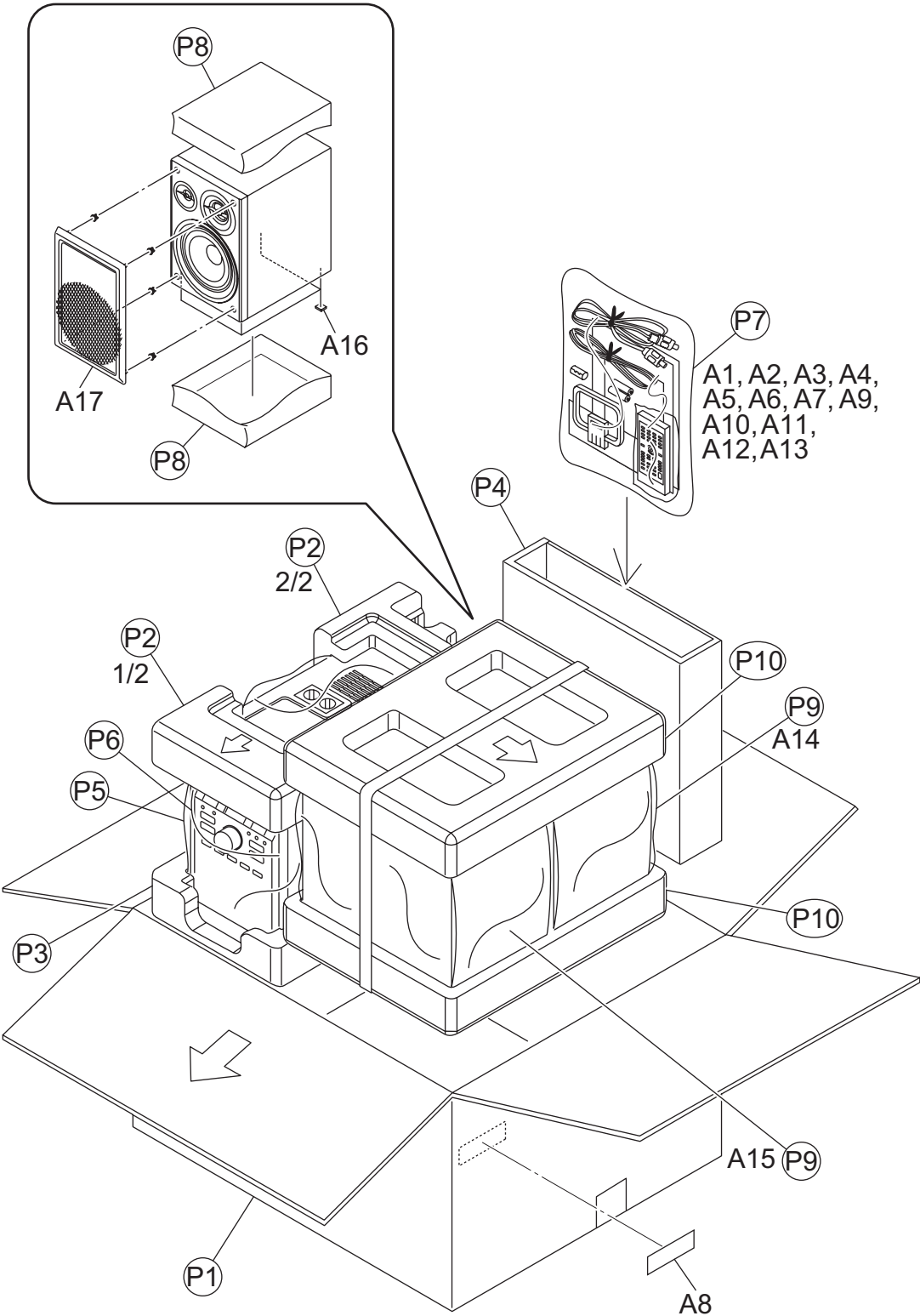
△ Symbol No.	Part No.	Part Name	Description	Local
IC1	LB1641	IC		
IC2	LB1641	IC		
D1	MTZJ6.2A-T2	Z DIODE		
C1	QEK1CM-107Z	E CAPACITOR	100uF 16V M	
C2	QCB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C3	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C5	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C6	QCB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C7	QCB1HK-104Y	C CAPACITOR	0.1uF 50V K	
CN1	QGF1036F1-15	CONNECTOR	FFC/FPC (1-15)	
CN2	QGB2024K1-07S	CONNECTOR	B-B (1-7)	
CN3	QGB2024J1-07S	CONNECTOR	B-B (1-7)	
SW1	QSW0844-002	PUSH SWITCH		
SW2	QSW0844-002	PUSH SWITCH		
SW3	QSW0844-002	PUSH SWITCH		
SW4	QSW0844-002	PUSH SWITCH		
SW5	QSW0844-002	PUSH SWITCH		
SW6	QSW0854-002	PUSH SW		
SW8	QSW0923-001	DETECT SWITCH		

< MEMO >

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDS are available



Packing and Accessories

Block No. [M][3][M][M]

△ Symbol No.	Part No.	Part Name	Description	Local
A 1	GVT0181-001B	INST BOOK	ENG	G70J, G70C
A 1	GVT0181-003A	INST BOOK	ENG	G70B
A 1	GVT0181-004A	INST BOOK	GER FRE DUT ITA	G70E
A 1	GVT0181-005A	INST BOOK	SWE FIN DAN SPA POR	G70EN
A 1	GVT0181-006A	INST BOOK	HUN CZE POL	G70EV
A 1	GVT0181-007A	INST BOOK	RUS	G70EE
A 2	RM-SUXG70J	REMOCON		G70J, G70C
A 2	RM-SUXG70R	REMOCON		G70B, G70E, G70EN, G70EV, G70EE
A 3	-----	BATTERY	1.5V(x2)	
A 4	-----	WARRANTY CARD	BT-52006-2	G70C
A 4	-----	WARRANTY CARD	BT-54028-1	G70B, G70E, G70EN, G70EV, G70EE
A 5	QQR1607-001	FERRITE CLAMP		G70J, G70C
A 5	QQR1607-001	FERRITE CLAMP	(x2)	G70B, G70E, G70EN, G70EV, G70EE
A 6	QAL0014-003	AM LOOP ANT		
A 7	QAL0457-001	ANT.WIRE		
A 8	LE40796-001A	VERANCE LABEL		
A 9	VNA3000-204	REGIST CARD		G70B
A 10	GVT0181-002A	INST BOOK	FRE	G70C
A 11	YU20333	SAFETY INST.		G70J, G70C
A 12	QAM0216-001	SIGNAL CORD		G70J, G70C
A 13	BT-51034-2	REGISTRATION CARD		G70J
A 14	UXG70E-SPBOX-R	SPEAKER BOX		
A 15	UXG70E-SPBOX-L	SPEAKER BOX		
A 16	LEC-00008-00	RUBBER CUSHION	(x8)	
A 17	NEF-30040-00	SPK NET ASSY	(x2)	
P 1	GV20438-008A	CARTON BOX		G70J, G70C
P 1	GV20438-001A	CARTON BOX		G70B, G70E, G70EN, G70EV
P 1	GV20438-002A	CARTON BOX		G70EE
P 2	GV10335-001A	CUSHION TOP		
P 3	GV10336-001A	CUSHION BOTTOM		
P 4	GV30918-001A	CARTON SPACER		
P 5	QPC05006530P	POLY BAG	50cm x 65cm	
P 6	GV40437-004A	CLOTH		
P 7	QPC02503515P	POLY BAG	25cm x 35cm	
P 8	MRS-J0001-00	MIRAMAT SHEET	(x4)	
P 9	PLB-J0001-00	POLY BAG	(x2)	
P 10	PLF-10050-00	CUSHION	(x2)	